CONSTRUCTION NEWS

Supplement to ENGINEERING NEWS.
New York, September 28, 1905.

CONTENTS.

CONSTRUCTION NEWS:
Plans and Specifications on File.................. 101
List of Contracts Pending.................. 101
Railways 102
Electric Railways 102
Light and Power Plants.................. 103
Bridges 103
Buildings 103
Water Supply and Irrigation.................. 104
Sewerage 105
Garbage Disposal 105
Streets and Roads 106
Manufacturing Plants 106
Miscellaneous Contracts 107
Mexico 107
Foreign Contracts 107
Contract Prices 108
READERS' WANTS 107
CIVIL SERVICE EXAMINATIONS.................. 108
INDUSTRIAL NOTES 108
TRADE PUBLICATIONS 109
PROPOSALS 109-110

CONSTRUCTION NEWS.

PLANS AND SPECIFICATIONS ON FILE.

The following Plans (P.), Specifications (S.), and Bidding Sheets (B. S.) may be seen at the office of The Engineering News Publishing Co., 220 Broadway, New York:

Bids close	Work.	Place.	On file.	See issue.
Sept.				
•29	Filters, basins, etc.	Cincinnati, O.	P. & S.	8-31
•30	Water-works.	Newark, O.	P. & S.	9-21
Oct.				
•3	Bridge.	Natchitoches, La.	P. & S.	8-31
•4	Paving.	Steelton, Pa.	P. & S.	8-31
4	Sewer.	Salt Lake City, Utah.	P. & S.	9-14
•10	Filtration plant.	Toledo, O.	P. & S.	9-14
•10	Sewers.	Norristown, Pa.	S.	9- 7
•11	Water main.	Portland, Ore.	S.	9-14
14	Filling & gr'd'g.	N. Orleans, La.	S.	9-28
•16	Water-works.	Rolla, Mo.	P. & S.	9-14
16	Sewer s't'm.	Cape Girardeau, Mo.	P. & S.	9-14
21	Artesian well.	New Orleans, La.	S.	9-28
Jan.				
•2	Water system.	Manila	P. & S.	9-21
•12	Sewer system.	Manila	P. & S.	9-21

•Work advertised in Engineering News.

NOTE.—We are desirous of securing specifications and bidding sheets (and plans when not too bulky) of pending work for file in our New York office for the benefit of contractors or others who may be interested in the work. If more sets than one are sent us we shall be pleased to distribute these to contractors who ask for them. When the work is advertised in Engineering News a note that the plans are filed with us will be added to the advertisement without cost.

LIST OF CONTRACTS PENDING.

Bids close. Work. Place. See issue.

LIGHT, HEAT AND POWER PLANTS.

Sept. 30. Power plant, etc., Washington, D. C.....Aug. 3
Advertised, Eng. News, Aug. 3 to Sept. 21.
Oct. 4. Lighting system, Ft. Leavenworth, Kan. Sept. 14
Oct. 4. Generators, etc., Jacksonville, Fla.........Sept. 21
Oct. 9. Electric equipment, Breese, Ill.........Sept. 28
Nov. 1. Generators, etc., Los Angeles, Cal.........Sept. 14
Advertised, Eng. News, Sept. 14 to Nov. 2.
Nov. 2. Water wheels, etc., Los Angeles, Cal....Sept. 21
Advertised, Eng. News, Sept. 21 to Oct. 26.
Dec. 2. Water power, Porto Rico ....Aug. 17
Advertised, Eng. News, Aug. 17to Sept. 14.

BRIDGES.

Sept. 28. Concrete bridge, Cleveland, O............Sept. 21
Sept. 29. Bridges, Springfield, O..................Sept. 7
Sept. 30. Bridges, Porto Rico ....Aug. 3
Advertised, Eng. News, Aug. 3 to Sept. 21.
Sept. 30. Bridge, Troy, O........................Sept. 21
Oct. 2. Bridges, Peru, Ind......................Sept. 21
Oct. 1. Bridge, steel, Pensacola, Fla..............Aug. 24
Oct. 1. Steel bridge, Jefferson City, Mo.........Sept. 14
Oct. 2. Bridge, Peoria, Ill.......................Sept. 14
Oct. 2. Bridges, Guthrie, Okla..................Sept. 14
Oct. 2. Bridges, Peru, Ind......................Sept. 21
Oct. 2. Steel bridge, Rensselaer, Ind............Sept. 28
Oct. 2. Bridge, Jeffersonville, Ind.............Sept. 28
Oct. 2. Bridges, Richmond, Ind..................Sept. 28
Oct. 2. Bridge, Delphi, Ind......................Sept. 28
Oct. 2. Bridge, Tunica, Miss....................Sept. 28
Oct. 3. Bridge, North Yakima, Wash............Sept. 28
Oct. 3. Bridge, Kansas City, Mo...............Sept. 28
Oct. 3. Bridge, Independence, Mo...............Sept. 21
Oct. 3. Bridge, San Jose ,Cal ....Sept. 21
Oct. 2. Bridge, Port Orchard, Wash.............Aug. 31
Oct. 3. Bridge, Natchitoches, La.................Aug. 31
Advertised, Eng. News, Aug. 31 to Sept. 28.
Oct. 4. Bridge substructure, Chicago, Ill..........Aug. 10
Advertised, Eng. News, Aug. 10.
Oct. 4. Bridge superstructure, Chicago, Ill......Aug. 10
Advertised, Eng. News, Aug. 10.
Oct. 4. Bridge, Riverside, Cal....................Sept. 21
Oct. 6. Bridge, Midland, S. Dak..................Sept. 21
Advertised, Eng. News, Sept. 21.
Oct. 6. Bridges, Flandreau, S. Dak...............Sept. 28
Oct. 7. Steel bridge, Kansas City, Mo..........Sept. 28
Oct. 7. Bridge, Jefferson, O.....................Sept. 21
Oct. 9. Bridges, Evansville, Ind...............Sept. 28
Oct. 10. Bridge approach, Columbus, O...........Sept. 21
Oct. 11. Bridges, steel, Stillwater, Okla.........Sept. 21
Oct. 14. Bridge, Ashland, O.....................Sept. 28
Oct. 30. Bridge, Camden, N. J..................Sept. 21
Advertised, Eng. News, Sept. 21 and 28.
Jan. 1. Steel bridge, Pensacola, Fla.............Sept. 28

BUILDINGS.

Sept. 28. Heating and ventilating, Baltimore, Md. Sept. 7
Sept. 28. Buildings, Cheyenne Agency, S. Dak....Aug. 31
Sept. 28. Heating, etc., Baltimore, Md..............Aug. 31
Advertised, Eng. News, Aug. 31 and Sept. 7.
Sept. 29. Buildings, Ft. De Soto, Fla.............Sept. 21
Sept. 30. Building, Washington, D. C...........Sept. 7
Advertised, Eng. News, Sept. 7 to Oct. 5.
Oct. 2. Court-house, Rosedale, Miss...........Sept. 14
Oct. 2. Laundry (Mfg. Plants), Hoyt, Kan......Sept. 14
Oct. 2. Court-house, Marianna, Fla.............Sept. 21
Oct. 3. Engine house, Buffalo, N. Y...........Sept. 28
Oct. 4. School, Monticello, Ky..................Sept. 28
Oct. 4. Buildings, Detroit, Mich................Sept. 21
Oct. 4. Building, etc., Ft. Riley, Kan...........Sept. 14
Oct. 4. Light Fixtures, Ft. Leavenworth, Kan...Sept. 14
Oct. 5. Court-house, Manhattan, Kan.......Sept. 14
Oct. 5. Buildings, Browning, Mont............Sept. 14
Oct. 5. Buildings, Minnehaha Falls, Minn.......Sept. 21
Oct. 5. Building, Baltimore, Md..................Sept. 28
Oct. 6. Building, New London, Conn............Sept. 28
Oct. 7. Hospital, Burlington, Vt.................Sept. 28
Oct. 7. Building, Shreveport, La..................Aug. 24
Oct. 10. Court-house, Enid, Okla...............Sept. 21
Oct. 12. Building, Fargo, N. Dak..............Sept. 7
Advertised, Engineering News, Sept. 7 and 14.
Oct. 13. Building, New London, Conn............Sept. 21
Oct. 13. Window screens, etc., Ft. Meade, S. Dak. Sept. 28
Advertised, Eng. News, Sept. 28 and Oct. 5.
Oct. 14. Guard house repair, etc., Ft. Brady, Mich. Sept. 28
Advertised, Eng. News, Sept. 28 to Oct. 19.
Oct. 15. Buildings, Marietta, O..................Sept. 21
Oct. 16. Lighting fixtures, Ft. Monroe, Va......Sept. 21
Advertised, Eng. News, Sept. 21 to Oct. 19.
Oct. 16. Court-house, Gretna, La...............Sept. 14
Oct. 17. Ice plant (Mfg. plants), Chilocco, Okla..Sept. 28
Oct. 18. Buildings, etc., Ft. Sam Houston, Tex...Sept. 28
Oct. 18. Buildings, Vancouver Barracks, Wash..Sept. 28
Oct. 19. Buildings, Tomah, Wis..................Sept. 28
Oct. 19. Elevator and lifts, Lincoln, Neb.......Sept. 28
Advertised, Eng. News, Sept. 28 and Oct. 5.
Oct. 26. Roof and skylights, Washington, D. C...Sept. 28
Advertised, Eng. News, Sept. 28 to Oct. 26.
Oct. 27. Buildings, Green Bay, Wis..............Sept. 28
Nov. 8. Electric light fixtures, Washington, D. C. Sept. 28
Advertised, Eng. News, Sept. 28 to Nov. 9.
Nov. 14. Post-office, Colorado Springs, Colo.......Sept. 21
No date. Building materials, etc., Breen, Colo....Sept. 14

WATER SUPPLY AND IRRIGATION.

Sept. 28. Water tank, Vancouver Barracks, Wash. Aug. 31
Sept. 28. Boiler, pump, etc., Floresville, Tex.....Sept. 14
Advertised, Eng. News, Sept. 14 and 21.
Sept. 29. Filters, reservoirs, etc., Cincinnati, O....Aug. 31
Advertised, Eng. News, Aug. 31 to Sept. 21.
Sept. 29. Pumps, wells, etc., Fort Screven, Ga....Sept. 21
Sept. 29. Water tower repairs, Manchester, Va.. Sept. 28
Sept. 30. Water mains, etc., Ft Walla Walla, Wash. Sept. 21
Sept. 30. Water-works, Newark, O..............Sept. 21
Advertised, Eng. News, Sept. 21 and 28.
Oct. 2. Pumping engine, Rock Island, Ill.........Sept. 21
Oct. 2. Mains, generator, etc., Waupaca, Wis..Sept. 21
Advertised, Eng. News, Sept. 21.
Oct. 3. Water and sewer system, Wash., D. C...Sept. 7
Oct. 4. Boilers, Chicago, Ill.....................Sept. 21
Advertised, Eng. News, Sept. 21 and 28.
Oct. 2. Intake, Huntingburg, Ind...............Sept. 28
Oct. 2. Wood water tank, Paxton, Ill...........Sept. 28
Oct. 2. Meters, Philadelphia, Pa................Sept. 28
Oct. 3. Water main, East Liverpool, O.........Sept. 28
Oct. 3. Pumping, Philadelphia, Pa.............Sept. 28
Oct. 5. Laying pipe, Libertyville, Ill...........Sept. 28
Advertised, Eng. News, Sept. 28.
Oct. 5. Engine, pump, etc., Readstown, Wis..Sept. 28
Oct. 5. Piping, Peru ....Aug. 17
Oct. 5. Air plant, Fort Worth, Tex..............Sept. 21
Advertised, Eng. News, Sept. 21 and 28.
Oct. 6. Water-works, East Grand Forks, Minn..Sept. 21
Oct. 9. Reservoir, water mains, Orange, N. J....Sept. 28
Advertised, Eng. News, Sept. 28.
Oct. 9. Water-works, Lakewood, N. Y.........Sept. 28
Advertised, Eng. News, Sept. 28 and Oct. 5.
Oct. 10. Purification works, Toledo, O.........Sept. 14
Advertised, Eng. News, Sept. 14 to Oct. 12.
Oct. 11. Pipe and castings, Portland, Ore.......Sept. 14
Advertised, Eng. News, Sept. 14 and 28.
Oct. 11. Water main, Portland, Ore.............Sept. 14
Advertised, Eng. News, Sept. 14 and 28.
Oct. 11. Pipe, dam, Williamsburg, Pa..........Sept. 21
Advertised, Eng. News, Sept. 21.
Oct. 12. Water-works, Lyons Falls, N. Y........Sept. 28
Advertised, Eng. News, Sept. 28 and Oct. 5.
Oct. 13. Pipe laying, filter sand, etc, Cincinnati, O. Sept. 21
Oct. 14. Shafts and tunnel, Kansas City, Mo......Sept. 21
Advertised, Eng. News, Sept. 21 and 28.
Oct. 16. Water system, Rolla, Mo...............Sept. 14
Advertised Eng. News, Sept. 14 and 21.
Oct. 18. Water-works, etc., Milledgeville, Ga....Sept. 14
Oct. 18. Water mains, Boulder, Colo..............Sept. 21
Oct. 21. Artesian well, New Orleans, La..........Sept. 28
Oct. 23. Water-works, electric plant, India......Aug. 24
Oct. 24. Water-works, Ciudad Juarez, Mexico...Sept. 14
Oct. 26. Dam, canals, etc., Belle Fourche, S. Dak. Sept. 7
Advertised, Eng. News, Sept. 7 to Nov. 2.
Dec. 5. Yellowstone dam, Billings, Mont........Sept. 14
Advertised, Eng. News, Sept. 14 to Oct. 26.
Jan. 2. Water-works, Philippines................Sept. 21
Advertised, Eng. News.

SEWERAGE.

Sept. 28. Sewer, Washington, D. C................Sept. 21
Sept. 29. Sewer, Des Moines, Ia...................Sept. 21
Sept. 30. Sewers, Benson, Minn...................Sept. 21
Sept. 30. Sewer, Chicago, Ill......................Sept. 21
Sept. 30. Sewers, Boston, Mass...................Sept. 14
Oct. 1. Sewer, Springfield, Minn................Sept. 14
Oct. 2. Sewers, etc., Cresco, Ia..................Sept. 14
Oct. 2. Sewer, Napoleon, O.......................Sept. 21
Oct. 2. Sewers, Lawrence, Kan..................Sept. 21
Oct. 2. Sewers, Albany, N. Y...................Sept. 28
Oct. 3. Sewer mains, No. Platte, Neb............Sept. 14
Advertised, Eng. News, Sept. 14.
Oct. 4. Sewer and pmpg. station, Salt Lake City. Sept. 14
Advertised, Eng. News, Sept. 14 to Oct. 5.
Oct. 4. Gravity outlet sewer, Salt Lake City..Sept. 14
Advertised, Eng. News, Sept. 14 to Oct. 5.
Oct. 5. Sewer surveys, Versailles, Pa...........Sept. 28
Oct. 7. Pipe sewer, Des Moines, Ia..............Sept. 28
Oct. 10. Purification plant, Glencoe, Ill...........Sept. 28
Advertised, Eng. News, Sept. 28.
Oct. 10. Sewers, Norristown, Pa...................Sept. 7
Advertised, Eng. News, Sept. 7 to Oct. 5.
Oct. 11. Brick sewer, Parkersburg, W. Va........Sept. 28
Oct. 16. Sewers, Cape May, N. J.............Sept. 28
Advertised, Eng. News, Sept. 28 and Oct. 5.
Oct. 20. Sewers, Grants Pass, Ore..............Sept. 28
Oct. 16. Sewer system, Cape Girardeau, Mo....Sept. 14
Advertised, Eng. News, Sept. 14 and 21.
Oct. 20. Sewers, Princeton, Ind..................Sept. 28
Oct. 20. Sewer system, Lake City, Fla...........Sept. 28
Advertised, Eng. News, Sept. 28 and Oct. 5.
Jan. 12. Sewer system, Philippines ....Sept. 21
Advertised, Eng. News.

STREETS AND ROADS.

Sept. 28. Sidewalks, brick, Roanoke, Va........Sept. 14
Sept. 28. Paving, New York, N. Y...............Sept. 21
Sept. 29. Paving, Buffalo, N. Y.................Sept. 21
Sept. 30. Road, St. Louis, Mo....................Sept. 21
Sept. 30. Paving and walks, Ft. Monroe, Va......Sept. 21
Sept. 30. Road, Cleveland, O.....................Sept. 14
Oct. 2. Paving, brick, Macon, Mo...............Sept. 14
Oct. 2. Paving, asphalt, Johnstown, N. Y.....Sept. 14
Oct. 2. Macadamizing, Sykesville, Md...........Sept. 21
Oct. 2. Paving, Jackson, Mich..................Sept. 28
Oct. 2. Paving, South McAlester, Ind. T.........Sept. 28
Oct. 2. Road, Lebanon, O......................Sept. 28
Oct. 2. Sidewalks, Wichita, Kan................Sept. 28
Oct. 3. Paving, brick, South Bend, Ind..........Sept. 28
Oct. 3. Graveling, North Yakima, Wash.........Sept. 28
Oct. 3. Grading, Cheswick, Pa..................Sept. 28
Oct. 3. Sidewalks, Atlantic, Ia.................Sept. 28
Oct. 3. Gravel road, Kangley, Ill...............Sept. 28
Oct. 3. Paving, Paterson, N. J..................Sept. 21
Oct. 3. Roads, New Brighton, N. Y..............Sept. 21
Oct. 3. Paving, Columbus, Ga...................Sept. 14
Advertised, Eng. News, Sept. 14.
Oct. 4. Paving, Columbus, O....................Sept. 28
Oct. 4. Road, Ft. Des Moines, Ia...............Sept. 28
Oct. 4. Paving, asphalt, Cincinnati, O..........Sept. 28
Oct. 4. Road, Harrisburg, Pa..................Sept. 28
Oct. 4. Road, Republic, Wash..................Sept. 28
Oct. 5. Paving, brick, Iola, Kan................Sept. 28
Oct. 7. Roads, Crownpoint, Ind..................Sept. 21
Oct. 7. Paving, Stoughton, Wis..................Sept. 21
Oct. 10. Paving, Cincinnati, O....................Sept. 21
Oct. 11. Paving, etc., Brooklyn, N. Y.............Sept. 28
Oct. 14. Cement walks, Washington, D. C.......Sept. 21
Advertised, Eng. News, Sept. 21 and 28.
Oct. 16. Roads and walks, Ft. Hancock, N. J....Sept. 28
Oct. 18. Paving, asphalt, Cincinnati, O...........Sept. 28
Oct. 18. Grading, Argenta, Ark.. ....Sept. 28
Oct. 18. Paving, brick, Moundsville, W. Va....Sept. 28
Nov. 1. Paving, Steelton, Pa.....................Sept. 14
Advertised, Eng. News, Sept. 14 to Oct. 5.

MISCELLANEOUS CONTRACTS.

Sept. 28. Grade reduction, C. C. C. & St. L. Ry..Sept. 21
Sept. 28. Subway, Reading, Pa....................Sept. 21
Advertised, Eng. News, Sept. 21.
Sept. 29. Pier, New York, N. Y..................Sept. 21
Sept. 29. Track materials, Washington, D. C....Sept. 28
Sept. 29. Dredging, New York, N. Y............Sept. 14
Advertised, Eng. News, Sept. 14 and 21.
Sept. 30. Wire fence, Denver, Colo..............Sept. 14
Sept. 30. Track extension, Washington, D. C......Sept. 7
Sept. 30. Portland cement, Los Angeles, Cal.......Sept. 7
Advertised, Eng. News, Sept. 7 to 28.
Sept. 30. Well drills, etc., Washington, D. C......Sept. 21
Oct. 2. Conduits, hose wagons, New York, N. Y..Sept. 28
Oct. 3. Subway, iron, etc., New York, N. Y......Sept. 28
Oct. 3. Cement, sand, boiler, etc., Wash., D. C..Sept. 21
Oct. 3. Dredging, Columbus, O.................Sept. 21
Oct. 3. Dredging, New York, N. Y.............Sept. 21
Advertised, Eng. News, Sept. 21 and 28.
Oct. 3. Snow removal, New York, N. Y.........Sept. 21
Oct. 3. Machine tools, Washington, D. C.......Aug. 24
Oct. 3. Bricks, blower, etc., Washington, D. C..Sept. 7
Oct. 4. Pier extension, Grand Rapids, Mich...Sept. 7
Advertised, Eng. News, Sept. 7 to Oct. 5.
Oct. 4. Flat cars, steam shovels, etc, Wash., D.C. Sept. 21
Advertised, Eng. News, Sept. 21 and 28.
Oct. 4. Ladder trucks, hose, New York, N. Y...Sept. 28
Oct. 6. Street cleaning, Middletown, O..........Sept. 28
Oct. 6. Dump boat, Wheeling, W. Va.........Sept. 14
Oct. 9. Dredging, Portland, Me.................Sept. 14
Advertised, Eng. News, Sept. 14 to Oct. 12.
Oct. 9. Box culvert, Lisbon, O.................Sept. 28
Oct. 9. Cables, Lynchburg, Va...................Sept. 28
Oct. 10. Ditch, Marshalltown, Ia..................Sept. 28
Oct. 10. Lock repair, Columbus, O...............Sept. 28
Oct. 10. Cable, motors, cement, etc., Wash., D. C. Sept. 28
Oct. 10. Cement, New York, N. Y................Sept. 14
Advertised, Eng. News, Sept. 14 to Oct. 12.
Oct. 10. Machinery, Washington, D. C...........Sept. 7
Oct. 10. Harbor works, Egypt ....Aug. 17
Oct. 10. Ammunition hoists, Washington, D. C..Sept. 21
Oct. 10. Garbage collection, Bridgeport, Conn....Sept. 21
Oct. 11. Pier work, Grand Rapids, Mich.........Sept. 14
Advertised, Eng. News, Sept. 14 to Oct. 12.
Oct. 11. Engineering instruments, Wash., D. C...Sept. 28
Oct. 12. Dredging, New York, N. Y.............Sept. 28
Advertised, Eng. News, Sept. 28 and Oct. 5.
Oct. 12. Dredging, Seattle, Wash.................Sept. 21
Oct. 13. Ditchwork, Pocahontas, Ia..............Sept. 28
Oct. 14. Filling and grading, New Orleans, La....Sept. 28
Oct. 14. Breakwater, Indian Head, P. E. I........Sept. 28
Oct. 14. Dredging, Charleston, S. C..............Sept. 28
Advertised, Eng. News, Sept. 28.
Oct. 16. Dyke work, New York, N. Y...........Sept. 28
Advertised, Eng. News, Sept. 28 to Oct. 19.
Oct. 17. Crane, Washington, D. C................Sept. 21
Oct. 17. Cement, brick, etc., Porto Rico.........Sept. 21
Oct. 17. Earth embankment, Roswell, N. Mex....Aug. 24
Advertised, Eng. News, Aug. 24 to Oct. 5.
Oct. 17. Air hoist, motor, etc., Washington, D. C..Sept. 28
Oct. 17. Cement, rails, pipe, etc., Wash., D. C...Sept. 28
Oct. 21. Dredging, Washington, D. C............Sept. 28
Advertised, Eng. News, Sept. 28 to Oct. 26.
Oct. 23. Rehandling machine, Philadelphia, Pa...Sept. 21
Advertised, Eng. News, Sept. 21 to Oct. 19.
Oct. 25. Concrete dock, Chicago, Ill.............Sept. 7
Oct. 25. Wharf, etc., California City Point, Cal...Sept. 14
Advertised, Eng. News, Sept. 14 and 21.
Oct. 27. Rip-rap, sea wall, New York, N. Y.....Sept. 28
Advertised, Eng. News, Sept. 28 to Oct. 26.
Nov. 1. Lock, dam, etc., Chicago, Ill............Sept. 7
Advertised, Eng. News, Sept. 7.
Nov. 6. Garbage disposal, New York, N. Y......Sept. 7
Advertised, Eng. News, Sept. 7 to Nov. 9.
Nov. 9. Wharf, etc., Havana, Cuba..............July 27
Nov. 15. Irrigation canals, Glendive, Mont........Sept. 28
Advertised, Eng. News, Sept. 28 to Nov. 9.
Dec. 1. Railroads, Philippines ....Sept. 7
Dec. 15. Railways, Philippines.....................Sept. 21
Jan. 1. Statue, Indianapolis, Ind..................July 20
Advertised, Eng. News, July 20.
Jan. 2. Railroad, Chile ....Aug. 24
No date. Street railway, Wabash, Ind...........Sept. 28
Advertised, Eng. News, Sept. 28.
No date. Street railway, Indianapolis, Ind........Sept. 28
Advertised, Eng. News, Sept. 28.

RAILWAYS.

The names of parties awarded contracts are printed in capital letters.

ABERDEEN & ROCKFISH.—This company probably will extend its line from Aberdeen, N. C., to Rockfish, four miles. C. N. Blue is Supt., and John Blue, Pres. and Gen. Mgr., at Aberdeen, N. C.

BEAUMONT, SOUR LAKE & WESTERN.—Surveys are now being made for an extension from Sour Lake west to Houston, Tex., about 65 miles. Actual construction will begin on this line at an early date. R. C. Welles is Gen. Mgr., Beaumont, Tex.

BEAUMONT & GREAT NORTHERN.—It is announced that the contract for the construction of the first 20 miles of the Beaumont & Great Northern Railroad has been let to LAMB & HANSEN, of San Antonio and Houston, Tex. The proposed road is to run from Trinity to Beaumont by way of Livingston, Tex.

CHESAPEAKE & OHIO.—An agreement having been made between the railway companies owning the Richmond-Washington Railway Co., the Chesapeake & Ohio Ry. Co. has approved the making of a mortgage of that company for $11,000,000, to be used in double-tracking and improving its property and the board has authorized the officers to execute the guarantee of the Chesapeake & Ohio upon the bonds secured by the mortgage. A like guaranty has been made by the Pennsylvania Railroad Co., the Atlantic Coast Line, the Southern Railway, the Seaboard Air Line, and the Baltimore & Ohio Ry. Co.

CORDELE, HAWKINSVILLE & NORTHEASTERN.—This company has made application for a charter to build a line between Cordele, Ga., to Hawkinsville, via Tippettville, a total length of 35 miles. The incorporators are J. Pope Brown, P. P. Lovejoy and C. W. Jordan, Jr., of Hawkinsville, B. P. O'Neal, R. L. Wilson, J. A. Ward and W. H. Dorris, of Cordele. The capital stock is $3,000,000.

DELAWARE & EASTERN.—JOHN R. LEE, of Paterson, N. J., and JOHN F. DOLAN, of Elizabeth, N. J., have been awarded contract for a 25-mile section between East Branch and Arkville, N. Y. Cost, about $300,000. Sub-contracts probably will be awarded at once from the New York office, 5 Nassau St.

FRESNO COUNTY RY.—EDWARD MALLEY, of San Francisco, Cal., has contract for building this railway from Reedley, Cal., to winery of the Great Western Wine Co., 6½ miles. This road, it is reported, will be a branch of the Atchison, Topeka & Santa Fe system.

GRAND TRUNK.—On Oct. 5 this road will take over the Canada Atlantic Ry. as a part of its own system, and preparations are being made for extensive improvements, including the strengthening and reconstruction of bridges to make the road suitable for heavy traffic. The Canada Atlantic Ry. extends from Montreal and with a branch to Swanton, Vt., to Ottawa and Parry Sound, Ont., 410 miles. At Parry Sound, on Georgian Bay, it has an excellent harbor, which is used by the company's steamers running to Chicago and other lake ports.

GULF, SANTA FE & NORTHWESTERN.—Charter of this company has been approved. Fully noted last week. This line when built will complete the "Santa Fe System" between the Gulf of Mexico and the Pacific Coast, in connection with the line now under construction from Rio Puerco, New Mex., to Texico, about 200 miles, and forms a continuous low-grade line. The maximum grade in Texas will be 0.6%. It is stated that final surveys have been made and that construction will begin at once after the completion of the Belen cut-off from Rio Puerco to Texico, if not prior to that time. The following names are among the directors, E. P. Ripley, Chicago; J. E. Hurley, Topeka, Kan.; Avery Turner, D. A. Sweet, A. L. Conrad and S. H. Madden, of Amarillo, Tex.

GOTHENBERG NORTHERN.—This company has been incorporated in Nebraska to build a railroad from Gothenberg to Gandy, a distance of about 75 miles, connecting with the Union Pacific Ry. at Gothenberg. Capital stock, $500,000. Incorporators: W. D. Griffith, H. L. Williams, E. G. West, W. M. Stebbins and J. H. Kelly.

GREAT NORTHERN.—Location surveys are being run for the proposed extension from St. John, N. Dak., to Brandon, Man.

GULF & INTERSTATE RY. OF TEXAS.—It is reported that improvements, to cost $500,000, are contemplated. A newspaper report states that the St. Louis & San Francisco R. R. Co. has obtained control of the Gulf & Interstate. It is 70 miles long and extends from Beaumont to Bolivar, Tex. L. I. Featherstone, Beaumont, is Secy. and Supt.

ILLINOIS CENTRAL.—Contracts are reported to have been awarded to W. J. HUTTON, of Memphis, Tenn., and LORIMER & GALLAGHER, of Chicago, to build the proposed belt line connecting Woodstock and the Nonconnah yards at Memphis, Tenn.

JOHNSTON CITY SOUTHERN (SOUTHERN.)—A contract has been awarded by this company to W. J. OLIVER, of Knoxville, Tenn., to build its road. The proposed route is from Marion, N. C., to Johnson City, a distance of about 80 miles.

JACKSON & SOUTHEASTERN.—This company has been chartered to construct a road from a point on the Chicago, St. Louis & New Orleans R. R. at or near Frogmoor Yard to a point at or near Jackson, Miss. Capital, $10,000. Incorporators: C. G. Bond, Frank Eldridge, Thomas O'Malley, A. M. Allen and A. P. Franklin.

KANSAS CITY, MEXICO & ORIENT.—Route for proposed extension into Sonora, Mex., has been located from Angelo, Tex. The branch will extend from Spofford via Brackett, Tex., to Sonora. M. P. Paret, Kansas City, Mo., is Ch. Engr.

KANSAS SOUTHERN & GULF.—Company will build an extension from Westmoreland, Kan., south to Alma, about 30 miles. The road is now ten miles long. O. J. Collman, Westmoreland, is Gen. Mgr.

NEW YORK, NEW HAVEN & HARTFORD.—New Haven (Conn.) papers state that the committee appointed to confer with President C. S. Mellen has been granted by the latter practically everything desired by the city in the matter of highway grades, and that the committee will make a favorable report upon this latest plan at an early date. It is expected that action by the Aldermen will be favorable, and that work will then begin on the improvement as soon as the formal consent of the Railroad Commissioners is obtained: probably by November 1. It is estimated that the total improvement will cost about $5,000,000, as follows: East cut construction, $1,750,000; real estate, $1,500,000; new station and changes, $1,250,000; various other changes, etc., $500,000. C. B. Ingersoll is Ch. Engr.; C. R. Harte, Assistant Engr., is in charge.

NORTH MISSISSIPPI & BAY SPRINGS.—This company has made application for a charter in Mississippi to build a railroad from 25 to 30 miles long from Burnsville, Tishomingo County, to a point on the line between Tishomingo and Itawamba Counties. Incorporators are E. B. Causey, C. D. Wallis and F. J. Ozanne, of Memphis, Tenn.

NORTHERN PACIFIC.—Announcement is made that an arrangement has been reached between the Northern Pacific Ry. and the Great Northern Ry. companies, to build a cut-off between Portland, Ore., and Seattle, 230 miles long. The new line will extend from Kennewick, Wash., along the Columbia River to Vancouver. A company, known as the Portland & Seattle Ry., has been incorporated by the G. N. and N. P. companies, to build this joint line.

NAPA & LAKEPORT.—This company has filed articles of incorporation at San Francisco to build a railroad from Napa to Lakeport, Cal., a distance of 90 miles, with a branch from Napa to Monticello. Capital stock, $2,000,000. The directors are: E. C. Amadee, A. J. Brown and F. W. Ansell, of Alameda County, Cal. Harding & Sargent, of San Francisco, are Attorneys for the company.

PAULS VALLEY RAILWAY.—Company has been incorporated in Oklahoma to build from Ada, Ind. T., to Pauls Valley, Ind. T., and Waurika, Okla., and thence to Wichita Falls, Tex., a distance of 180 miles. Capital stock, $5,000,000. Incorporators: J. C. Amendt, of Chicago; W. H. Freeman, Albert Rennie, J. B. Thompson, S. J. Garvin, J. C. Hyberger, all of Pauls Valley; A. P. Williams, John Upshaw and P. J. Stovall, of Wanette. Headquarters will be at Wanette, Okla.

PANHANDLE & GULF.—This company has filed an amendment to its charter in Texas changing its name to the Kansas City, Mexico & Orient Ry. Co. A. E. Stilwell, Kansas City, Mo., is Pres.

PHILADELPHIA & READING.—Surveys are being made for a proposed tunnel through Broad Mountain. The tunnel, if built, would be eight miles long. Estimated cost is $7,000,000. William Hunter, Philadelphia, is Ch. Engr.

PARSONS & SHAFFERS FORK.—This company has been incorporated in West Virginia to build a railroad from Pottersvood to Glady, W. Va. Capital, $100,000. Incorporators: Robert Felty, Cyrus Echard, F. W. Wright and W. H. Brown, of Connellsville; and E. B. Stone, of Morgantown.

PENNSYLVANIA R. R.—It is reported that this company is to build a new double-track line from Morrisville, on the Delaware River, to Waverly, Pa. When the classification freight yard at this point is completed all freight trains will be sent through it and when the new low-grade road is built it is to be used exclusively for freight purposes.

PIERRE, RAPID CITY & NORTHWESTERN.—A company has been incorporated under this title to build the Chicago & Northwestern Ry. Co.'s line in South Dakota. The Chicago & Northwestern has purchased the right-of-way and partly completed grade of the old Rapid City, Missouri River & St. Paul Ry., east of Rapid City, S. Dak. This line was projected from Pierre to Rapid City, 165 miles, and 18 miles from Rapid City east were graded some 12 or 15 years ago. The Northwestern has also secured the bridge franchises of the Duluth, Pierre & Black Hills, and will build a combination bridge over the Missouri River at Pierre, S. Dak. The incorporators of the new company are officials of the Northwestern system. They are as follows: R. W. Stewart, attorney for the road in S. Dak.; O. H. McCarty, Division Supt., Huron, S. Dak.; John M. Whitman, Fourth Vice-Pres.; J. B. Redfield, Auditor; Marvin Hughitt, Pres., Chicago. The length of the proposed road is 165 miles, estimated to cost $20,000 a mile.

SIOUX FALLS & WESTERN.—Incorporated in South Dakota to build a railroad from Sioux Falls to Greenwood, through the counties of Minnehaha, McCook, Hutchinson, Douglas and Charles Mix; also from Sioux Falls to Bonhomme, through Minnehaha, Lincoln, Yankton and Bonhomme Counties. Capital stock, $10,000,000. Incorporators: F. Pettigrew, G. W. Burnside, W. H. Lyon, H. C. Freese and C. O. Bailey, all of Sioux Falls, S. Dak.

ST. JOSEPH & CENTRAL BRANCH.—Company has incorporated in Missouri to build a railroad from a point on the Missouri River opposite Atchison, Kan., northeast to St. Joseph, 26 miles. Capital stock, $1,500,000. Incorporators: George J. Gould, of Lakewood, N. J.; C. S. Clarke, A. W. Sullivan, C. H. Middleton and E. G. Merriam.

SHREVEPORT & NORTHEASTERN.—Charter has been applied for to build a railway from Shreveport, La., to Memphis, Tenn., through Caddo, Bossier, Webster, Claiborne and Union Parishes in Louisiana, and crossing Arkansas. Capital stock is $2,000,000. A. E. Clingman is Pres.; A. Kinnebrew is Vice-Pres.; J. B. Ardis is Second Vice-Pres.; S. C. Fillilove is Secy., and T. E. Schumpert is Treas., with headquarters at Shreveport.

SALUDA VALLEY.—It is reported that contract for building this railway from Greenville, S. C., to Marietta, has been awarded to the PHILADELPHIA CONSTRUCTION CO., of Philadelphia, Pa.

SEABOARD AIR LINE.—Surveys are completed for the extension from Wacissa to Perry, Fla. W. L. Seddon, is Ch. Engr., at Portsmouth, Va.

ST. LOUIS, ROCKY MOUNTAIN & PACIFIC.—Clearing and grading are in progress at different points on this line, which will extend from Folsom, N. Mex., to Morena Valley, 120 miles. The contract for grading has been let to the UTAH CONSTRUCTION CO., of Ogden, Utah; and the contract for the inspection of rails and material and the investigation of water supplies along the line has been let to R. W. HUNT & CO., of Chicago. Noted last week.

SOUTHERN RY.—A belt line will be built around Lynchburg, Va., for use of freight trains.

TEMISCAMING & NORTHERN ONTARIO.—This line is now completed from North Bay, Ont., on the Grand Trunk Ry., north to New Liskeard, at the head of Lake Temiscamingue, 113 miles. Construction is in progress and rails are being laid on another division 80 miles further north, and surveys have been completed to the Abitibi River, 30 miles further. Beyond this, reconnaissance parties are working for about 50 or 60 miles to where the line will cross the new Canadian transcontinental railway. For the present the location will not be carried beyond this connection, but eventually the line will be extended to James Bay and an exploration party is now seeking a good navigable harbor for the terminal point. The line is being built by a commission appointed by the Ontario government. Cecil B. Smith, of Toronto, is Chm.; G. A. McCarthy, of North Bay, Ont., is Ch. Engr.

ELECTRIC RAILWAYS.

The names of parties awarded contracts are printed in capital letters.

PLYMOUTH, MASS.—The Plymouth, Carver & Wareham St. Ry. Co. is reported to have secured subscriptions sufficient to build its proposed line between Wareham and Plymouth. The estimated cost is $161,000. It will be 16 miles long.

SYRACUSE, N. Y.—The Auburn & Syracuse Railroad Co. has let to J. M. LUDINGTON, of Rochester, N. Y., the contract for the double-tracking of its line for five miles west of Marcellus, N. Y. Work has already been begun. The contract calls for its completion by June 1st, 1906. When finished the road will be double-tracked practically all the way from Syracuse to Auburn. Noted last week.

PATERSON, N. J.—The New York & North Jersey Rapid Transit Co. has been granted a franchise for a high-speed elevated electric railway on Pearl St. This third-rail line will run from Church St., Paterson, through Pearl St., via the Broadway station, through Passaic and Rutherford to the Weehawken ferries of the West Shore Railroad, where a ferry service will give direct connection to 42d St. and Franklin St., Borough of Manhattan, New York. The total length of the line will be 13.6 miles.

NEW YORK, N. Y.—Two companies have been incorporated to construct a tunnel under the Hudson River for the Public Service Corporation of New Jersey. The companies are known as the Interstate Tunnel Ry. Co., of New York, and the Interstate Railway Co., of New Jersey. Capitalized at $7,500,000 each. It is announced that these companies will build a tunnel under the Hudson River from a terminus in Jersey City at Erie and Twelfth Sts. to a terminus in New York, under Chambers St., between Brooklyn Bridge and Broadway. The purpose is to provide a better means of communication between the business section of New York and the territory served by the Public Service Corporation, which operates all the surface lines in the counties of Hudson, Passaic, Essex, Union and Middlesex, in New Jersey, more than 550 miles of road in all. The existing facilities will be supplemented by a new direct high-speed line from Newark, N. J. The directors are John B. MacDonald, 32 Nassau St.; John D. Crimmins, 1037 Third Ave.; Herbert H. Vreeland, 239 West 72d St.; Henry D. Macdona, 31 Nassau St.; and Robert A. C. Smith, 100 Broadway, New York City; Mark T. Cox, of East Orange, N. J.; and Thomas M. McCarter, 59 Lincoln Park; Charles H. Sterling, and Albert B. Carlton, of Newark, N. J.

BROWNSVILLE, PA.—The Brownsville Street Ry. Co. has been incorporated to build four miles of road in the Borough of Brownsville; capital, $24,000. President, Holman P. Lynn, Pittsburg. Directors, Milton J. Eakin and Byron C. Hovis, of Crafton; Daniel B. Ludwick, of Wilkinsburg; and William B. Dunbar, of Pittsburg.

BADEN, PA.—The Freedom & Baden St. Ry. Co. has been incorporated to build three-fourths of a mile of road between Baden and Economy township, Beaver county; capital, $6,000. President, John H. Park, Beaver. Directors, William A. Park, Rochester; Jas. M. Beol, George I. Park, Beaver; Charles Connel, Freedom.

The Ambridge & Baden St. Ry. Co. has been incorporated to build 1⅝ miles of road in the borough of Baden; capital, $12,000. President, W. E. Guy, Pittsburg. Directors, H. P. Barnes, Allegheny; T. T. Aldrich, H. F. Reed and A. O. Bates, of Pittsburg.

BRIDGEPORT, PA.—The Bridgeport St. Ry. Co. has been incorporated to build four miles of road in the borough of Bridgeport; capital, $24,000. Holman P. Lynn, of Pittsburg, is Pres.

GREENSBURG, PA.—Application will be made for a charter for the Greensburg & Sewickley St. Ry. Co. This company plans to build a traction line from Hemphill township to Arona, Madison and Herminie. The line will be built principally over private right-of-way. Congressmen George F. Huff, Lloyd Huff, H. F. Bovard and Richard Coulter are reported to be interested.

STROUDSBURG, PA. [illegible] are informed that J. L. Westbrook [illegible] begin survey at once for an extension [illegible] the Stroudsburg & Wind Gap Electric [illegible] Ry. to Wind Gap, via Sciota and S[illegible]burg, Pa., 14½ miles. Work of cons[illegible] will begin as soon as right-of-way is [illegible], which probably will be about Janu[illegible] J. B. Williams is Pres. and E. P. Arb[illegible] Ch. Engr., at Stroudsburg, Pa.

CLAYTON, DEL.—Ch[illegible] Le Fevre, of Dover, Del., and E. H[illegible], of Chicago, Attys., are promoting a [illegible]pany to build an electric railway from [illegible] to Smyrna, to Woodland Beach, the[illegible] Dover and to Milford, Del. The comp[illegible] is said, will be known as the Smyrna, [illegible] and Beach & Delaware Bay Traction [illegible] Right-of-way over certain public roads [illegible] County has been granted by the Levy [illegible].

DANVILLE, VA.—It is [illegible] that H. C. Featherstone, of Lynchb[illegible] Va., is interested in plan to build [illegible]tric railway from Danville to Yanceyv[illegible] N. C.

NEWPORT NEWS, VA. [illegible] are advised that actual work on the [illegible] the Virginia Peninsular Ry. Co., betw[illegible] Newport News and Yorktown, Va., will b[illegible] within 30 days. The line will be oper[illegible] with gasoline motor cars. The Virginia [illegible]insular Railway Corporation may constr[illegible] a branch line to Poqucsin, and probably [illegible] branch line to Hampton, Phoebus and Old P[illegible] with ferry connection between Yorkt[illegible] Gloucester Fort. The charter is now [illegible] the hands of the corporation commission [illegible] officers are as follows: W. A. Post, P[illegible] L. Patton, Vice-Pres.; Charles M. Grav[illegible] Jr., of Norfolk, Secy.; Arthur Lee, Trea[illegible] O. D. Batchelor, General Solicitor. Di[illegible]tors, W. A. Post, J. L. Patton, Arthur L[illegible] O. D. Batchelor, J. A. Willett, W. E. [illegible]rrett, W. E. Cottrell, Alexander B. Myers, [illegible] P. Stearns, Elias Peyser, Walter Charl[illegible] T. J. Coleman, Fred J. Gauntlett and John Lowry.

GRAFTON, W. VA.—We are informed by Taylor & Ely, Consulting E[illegible] Fifth Ave., New York, that franchise held by Mr. Hilderbrand, formerly Pres. of the Grafton Ry. & Light Co., has been forfeited as construction was not begun before August 6. At present there is no company formed to build this railway.

ATLANTA, GA.—The Atlanta & Carolina Ry. Co. will build a line between Atlanta and Conyers, Ga. An extension may be built to Anderson, S. C. H. L. Wilson is Pres.; I. E. Wilcox, Treas., and M. T. Edgerton is Secy. and Gen. Mgr.

GULFPORT, MISS.—The Gulfport & Mississippi Coast Traction Co., capitalized at $1,500,000, has been chartered to build an electric line connecting coast towns. Capt. J. T. Jones and others are the incorporators. Work has been commenced.

HOPKINSVILLE, KY.—A 20-year franchise for building and operating an electric street railway system and light plant in Hopkinsville was recently sold to John H. Bell, Jr., of this city, for $26.

BROOKLYN, O.—The Cleveland, Berea & Southern Ry. Co. has been incorporated. A franchise has been granted by County Commissioners for 25 years. The road, under the conditions, is to be built by December 31, 1906. C. H. Hubbell, of Cleveland, is the Attorney for the company.

FOSTORIA, O.—E. H. McDonell is securing right of-way for an electric line between Fostoria and Freemont, via Kansas, Amsden and Burgoon, a distance of 22 miles.

WABASH, IND.—Wabash & Rochester Traction Co. is prepared to receive bids for the completion of track work and roadbed of its line between this place and Rochester, Ind. The original route of the line has been materially shortened and straightened and new franchises have been granted. Further information may be obtained from R. S. Vivian, 107 Dearborn St., Chicago, Ill. (Advertised, Engineering News.)

INDIANAPOLIS, IND.—Indianapolis, Crawfordsville & Western Traction Co. is prepared to receive bids for track and roadbed work of first section of its line between Indianapolis and Crawfordsville, Ind., 42 miles. W. D. Ball, Engr., 1st National Bank Bldg., Chicago, Ill., may be addressed. (Advertised, Engineering News.)

INDIANAPOLIS, IND.—Subsidies have been voted in Brown County for the Indianapolis & Ohio Valley Traction Co., which will build an electric line from Indianapolis to Rockport. The route is partly surveyed. Franchise requires that construction be begun May, 1906, and be completed Jan. 1, 1908.

MARION, IND.—We are informed that a survey has been run by F. W. White, C. E., of Rensselaer, Ind., for a line for the Marion, Gas City & Hartford Traction Co. The line will run from Marion through Gas City, Upland, Renner and Hartford City, Ind.

WATERVLIET, MICH.—At a recent meeting of the village council a franchise was granted to W. A. Baker for an electric road from this place to Paw Paw lake. The grading will be completed this fall and the rails laid in the spring.

SOUTH HAVEN, MICH.—It is reported that John H. Haskell, of the Consolidated Commercial Co., of Chicago, is promoting the construction of an electric railway from South Haven to Saugatuck, to be known as the South Haven Interurban & Traction Co., capitalized at $200,000. Work is to begin soon. A power-house will be located on Black River. Seymour Stedman, of Stedman & Soelke, Attorneys, Chicago, is said to be interested.

ABERDEEN, S. DAK.—A company will be organized by S. H. Jumper, J. L. W. Zwick w, C. N. Herreid, A. C. Witte, William Wallace, F. J. McArthur and others to build a street railway system in Aberdeen.

ST. LOUIS, MO.—It is stated that the Keystone Construction & Development Co., 1230 Pine St., St. Louis, will build a line of railway in St. Louis County. Company is capitalized for $300,000.

MONETT, MO.—Council has granted a franchise to C. W. Copeland, who will construct an electric railway in this city and to Pierce City.

JONESBORO, ARK.—The Jonesboro & Nettleton Interurban Ry. Co. has been incorporated to build a line between Jonesboro and Nettleton. Capital is $200,000. The officers are N. F. Lamb, Pres.; Rudy Copeland, vice-Pres.; F. C. Watts, second vice-Pres.; W. W. Cate, Secy. and Treas.

FORT WORTH, TEX.—The charter of the Fort Worth & Mineral Wells Electric Ry. Co. has been filed. It has a capital stock of $250,000, and is formed for the purpose of constructing and operating a line of electric railway between Fort Worth and Mineral Wells, a distance of about 30 miles. Its principal office is at Fort Worth. The board of directors is composed of Cicero Smith, D. M. Howard, H. N. Frost, E. J. Waldron and Albert Stevenson, all of Mineral Wells.

TISHOMINGO, IND. T.—The Washita Valley Interurban Electric Co. has been incorporated in the Indian Territory with $12,000,000 capital. The incorporators are W. T. Croslen, J. G. V. Redmon and M. R. Morris. The headquarters will be at Tishomingo. The railway will pass through Oklahoma and Texas, into Shreveport, La.

BARTLESVILLE, IND. T.—A company has been organized by William Johnson, J. J. Curl, W. M. Higgins, of Bartlesville; W. M. Speck, of Dewey; John Overfield, of Independence; and W. T. Hutchings, of Muskogee. An electric railway will be built to Dewey from Bartlesville.

LAS VEGAS, N. MEX.—W. A. Buddecke has been granted an electric railway and lighting franchise for 30 years. $150,000 of improvements are to be undertaken within a year.

WATERVILLE, WASH.—Final survey has been run for an electric railway between Waterville and Wenatchee. State Attorney General J. D. Atkinson and Judge A. W. Frater, of Seattle, Wash., are the promoters.

SONOMA, CAL.—The Sonoma Valley Interurban Co. has been incorporated to build a steam or electric railway and engage in general engineering. The capital stock is $300,000. The company is incorporated for a term of fifty years. $7,000 is subscribed to build the first seven miles of the electric road between Sonoma and Glen Ellen. The directors of the company are: C. T. Ryland and Oscar T. Weber, of San Francisco; and F. T. Duhring and S. Shocken, of Sonoma. The new corporation has absorbed the Sonoma Valley Electric Light Co. The road will run from the California Northwestern Ry. depot in Sonoma, through El Verano and Agua Caliente, to Glen Ellen.

SAN FRANCISCO, CAL.—We are informed by Thomas P. Woodward, Cy. Engr., that in about two months specifications will be completed and contract let for reconstruction of the Geary St. railway as an underground conduit. As previously noted in Engineering News, $350,000 has been set aside in the budget for the coming year for the conversion of the Geary St. cable railroad into an underground electric conduit road. The total cost has been estimated at $667,595. This is the first step in the acquirement of this road as a public utility, its franchise having expired, and its operation under public ownership.

LIGHT AND POWER PLANTS.

The names of parties awarded contracts are printed in capital letters.

BROOKLYN, N. Y.—It is announced that the plan to consolidate the power plants at the Brooklyn Navy Yard will be taken up soon. Estimated cost is $400,000 to $500,000. Bids probably will be received this year on the work.

PALMYRA, N. Y.—The Palmyra Gas & Electric Co. plans improvements to its plant. Application to State Commission of Gas and Electricity has been made to issue $40,000 of bonds to cover cost of this work. William S. Morris is Secy.

UTICA, N. Y.—Preliminary work has been started by the Hudson River Electric Power Co. on the construction of a transmission line to convey electric power that will extend from [illegible] on the upper waters of the Hudson River to Utica. About 15,000 hp. will be transmitted.

BROADALBIN, N. Y.—The Broadalbin Electric Light & Power Co. has been incorporated with $50,000 capital. The company will supply the towns of Broadalbin and Mayfield, Fulton County, and Providence, Saratoga County, with light and power. The directors are William Pierson Judson, Henry C. Finch, Anna L. Judson and Lottie A. Finch, of Broadalbin. The headquarters are at Broadalbin.

READING, PA.—Plans are being prepared by C. Clarence Long and Frank A. Tyson for the power plant for the United Traction Co., which is to be erected next year on the Schuylkill River. Mr. Long is Ch. Engr. of the Traction Co., 12 South Fifth St., Reading.

PITTSBURG, PA.—Plans are said to have been prepared for two large power plants to be erected in Washington County, designed to distribute power in Pittsburg; Wheeling, W. Va.; Steubenville, O., and other cities. George Westinghouse, Henry C. Frick, of Pittsburg; Gen. A. J. Warner, of Marietta, O., and local capitalists are the promoters. A company will be incorporated to carry out the project. Estimated cost is $15,000,000.

ROCKVILLE, MD.—Anderson Offutt, H. W. Talbott and David M. Munro of New Orleans, La., have been commissioned by this town to rebuild the lighting plant.

WASHINGTON, D. C.—Plans are practically completed for lighting the various tunnels to be used in connection with the new union passenger station and its approaches. Walter C. Allen, District Elec. Engr., has approved a summarized plan which will be passed upon by Commissioner Biddle.

PETERSBURG, VA.—Judge Edmund Waddill, Jr., United States Judge, has entered a decree in the suit of the Bowling Green Trust Co., trustee, versus the Virginia Passenger & Power Co. and others, authorizing the expenditure of $41,800 by William Northrop and Henry T. Wickham, receivers, to complete the water power plant at Petersburg.

SUMMERSVILLE, W. VA.—We are advised that Geo. H. Alderson will soon install a small water power lighting plant with capacity of 400 or 500 16-c. p. lights; direct current. Plant will be two miles from town.

MOORESVILLE, N. C.—Election will be held on Oct. 10 at which time the proposition to issue bonds for an electric light plant will be voted upon.

FAYETTEVILLE, TENN.—The Elk Cotton Mills Co. is reported to be preparing plans for the erection of a dam to develop power which will be converted into electricity and furnished to operate a $60,000 cotton mill, which the company intends adding to its present plant.

LEXINGTON, KY.—J. Levering Jones and P. M. Chandler & Co., of Philadelphia, Pa., have purchased a number of electric light plants and electric railway lines in central Kentucky which will be consolidated. A new electric power plant will be built and general [illegible] improvements made.

WINCHESTER, KY.—M. C. Alford, of Lexington, Ky., has been granted a natural gas franchise in Winchester.

CRAWFORDSVILLE, IND.—The contract for repairing the municipal electric light plant has been awarded to J. F. DAVIES, of Toledo, O., for $7,433. The work includes the installing of two new boilers of 250 HP. each, making many changes and building two large smokestacks.

LANSING, MICH.—The Piatt Power & Heat Co., of Lansing, has secured the water power rights of the Grand Ledge Chair Co., at Grand Ledge. This is part of a plan to unite water power rights and build a power plant of 60,000 HP. capacity. A. A. Piatt and F. B. Piatt are the promoters.

BREESE, ILL.—We are informed that the Breese Water & Light Co. is preparing to install a central lighting plant in that city, and will receive bids on the entire equipment until 10 a. m., Oct. 9. Wm. H. Bryan, Lincoln Trust Bldg., St. Louis, Mo., is the Consulting Engr. in charge of the work.

COLLINSVILLE, ILL.—The Collinsville Gas, Electric & Refrigeration Co. has incorporated with $50,000 capital. Charles E. Slocum, of Belleville, Ill.; John H. Siegel and W. E. Hadley are named as incorporators.

HELENA, MONT.—The Helena Transmission Co., M. H. Gerry, Jr., Mgr., has awarded contracts, as follows, for the construction of the power dam on the Missouri River: S. MORGAN SMITH CO., of York, Pa., contract for main water wheels; ALLIS-CHALMERS CO., Milwaukee, Wis., auxiliary exciters; WISCONSIN BRIDGE & IRON CO., Milwaukee, Wis., for steel dam; WESTINGHOUSE ELECTRIC & MFG. CO., Pittsburg, electrical equipment; GENERAL ELECTRIC CO., of Schenectady, N. Y., steam auxiliary equipment. Other contracts will be let.

ORONOGO, MO.—T. C. Molloy, of Joplin, Mo., has applied for a 20-year natural gas franchise in Orongo.

KANSAS CITY, MO.—Bids will be received until Nov. 17 for the Beardsley natural gas franchise. The franchise is for 30 years. It is granted to R. B. Middlebrook, as trustee, with authority to assign to the grantees willing to accept the franchise or offer better terms than the ordinance provides. The grantee must deposit $50,000 cash to become the property of the city unless the grantee shall begin laying pipes in 60 days from the acceptance of the franchise; lay 50 miles of pipe and supply gas through the same in one year and construct and have in operation 200 miles of pipe in two years from the acceptance of the franchise. When these terms have been complied with the $50,000 shall be returned. To further secure compliance with the ordinance, bond must be given in the sum of $250,000, approved by the mayor, city comptroller and city counselor.

MENA, ARK.—The Mena Light, Heat & Power Co. has incorporated with $250,000 capital stock to operate light, heat and power plant. Incorporators are Francis R. Hoyt, Francis M. Reeves and Willson D. Hoyt.

GREENVILLE, TEX.—The city has granted a franchise to J. B. Murphy, Will N. Harrison and J. O. Hayter, to install gas works here. Work is to begin within 90 days and the plant is to be ready to furnish gas by the end of six months.

CONROE, TEX.—The Southern Pine & Cypress Co., of Houston, Tex., will locate a large planing mill and electric light plant at Conroe.

TISHOMINGO, IND. T.—The Wichita Valley Interurban Electric Co. has been incorporated with $12,000,000 capital. The incorporators are W. T. Croslen, J. G. V. Redmon and M. R. Morris. The charter authorizes the construction of an electric railway from Shreveport, La., through Texas and Indian T. to Anadarko, Okla., together with branch lines; also the operation of telegraph and telephone lines. It is probable that the company intends to use water power to generate the current, for authority is given to lease and condemn land for that purpose.

ALBUQUERQUE, N. MEX.—The Albuquerque Electric Light, Gas & Power Co. plans to spend $25,000 in Albuquerque during the coming year toward the refitting and reconstruction of the gas plant which will soon be moved from Broadway and East Railroad Ave. to a site south of the old power plant. E. C. Allen is Mgr.

TACOMA, WASH.—The contract for lighting the city, now held by the Seattle-Tacoma Power Co., expires on Nov. 8 1907. City Council is considering specifications for another lighting contract. Bids probably will be asked soon for a power plant for the city.

MONROVIA, CAL.—Trustees have granted H. Kirchenslager a gas franchise.

PROVO CITY, UTAH.—A gas franchise has been granted to George Snow and William Darst, both of Chicago, by the Salt Lake City Council. The plant will be located probably east of Provo. If present plans carry $2,000,000 will be spent. Gas would be piped to Salt Lake City and 85 miles of mains laid in that city.

GOLDFIELD, NEV.—It is reported that F. O. Frazier, of Los Angeles, Cal., and D. Hirschfeld, of Goldfield, are interested in the proposed company whose intention is to furnish Goldfield, Columbia and surrounding country with a complete lighting and heating gas plant. To build, equip and lay the pipe for such a plant and system as is contemplated will involve the expenditure of from $75,000 to $100,000.

BRIDGES.

The names of parties awarded contracts are printed in capital letters.

NEW BRUNSWICK, N. J.—The Board of Freeholders has awarded contract for strengthening the Weston's mill bridge to the MIDDLESEX CONSTRUCTION CO., for $4,100.

CHESTER, PA.—The city is considering the erection of a bridge at Fifth St. to cross Charles Creek. Jas. P. Wetherill, 1225 Walnut St., Chester, can give information.

MOUNT HOLLY, PA.—Reports state that the Philadelphia & Reading Ry. Co. will erect a bridge at the crossing on Mill St. The new structure will have concrete walls 25 ft. apart and will be 17 ft. in the clear.

WASHINGTON, D. C.—For the bids received Sept. 25 at U. S. Engineer's Office for erection of concrete arch bridge in the approach to the highway bridge over Potomac River, see under Contract Prices.

WAYCROSS, GA.—The County Commissioners have decided to construct a bridge across Satilla River about five miles below Waycross.

PENSACOLA, FLA.—The date for opening bids for building steel bridge across Perdido River by Escambia County has been postponed to Jan. 1, 1906. A. M. McMillan, County Clk.

TUNICA, MISS.—Bids are asked by County Commissioners until Oct. 2 for constructing bridge, 100 ft. long, across Willough Slough. F. L. Hope, County Clk.

CHATTANOOGA, TENN.—It is stated that plans are being made for a bridge to be built over Belt Line tracks at 11th St., for which an appropriation of $12,000 has been made. Robt. Hooke is Cy. Engr.

ASHLAND, O.—Sealed proposals will be received by E. B. Westover, County Audr., until Oct. 14 for construction of one steel bridge superstructure over Black Fork in Green Township, 110 ft. extreme; also for substructure and grading for approaches to same bridge.

IRONTON, O.—The contract for substructure of new steel bridge over the Ohio River for the Cincinnati, Hamilton & Dayton Ry. has been awarded to the E. G. NAVE BROS. CO., of Portsmouth, O. Raymond concrete piles will be used for the foundations.

AKRON, O.—The bridge over the B. & O. tracks at Arlington St. is said to be in a dangerous condition, and will probably be condemned. J. W. Payne is Cy. Engr.

DAYTON, O.—The news note in issue of Sept. 21 stating that plans are being prepared for a $300,000 bridge in this city is not correct. F. M. Turner, Cy. Engr., writes us that the city is not contemplating any such bridge at present.

SOUTH BEND, IND.—It is stated that the County Commissioners have approved plans of Alonzo J. Hammond, of South Bend, for removing Jefferson St. truss bridge to Spring Brook Park and building new concrete piers and abutments. Est. cost, $25,000. John W. Harbon, County Audr.

RENSSELAER, IND.—Bids are asked by County Commissioners until Oct. 2 for building steel bridge 40 ft. long with 16-ft. roadway in Jordan Township. Jas. M. Leatherman, County Audr.

EVANSVILLE, IND.—Bids are asked by County Commissioners until 10 a. m., Oct. 9, for erecting and completing six concrete bridges and one steel bridge. Harry Stinson, County Audr.

DELPHI, IND.—Bids are asked by County Commissioners until Oct. 2 for constructing one bridge and concrete abutments for said bridge on line between Washington and Rock Creek Township. Fred H. Engel, County Audr.

RICHMOND, IND.—Bids are asked by County Commissioners until 11 a. m., Oct. 2, for construction of five bridges.

INDIANAPOLIS, IND.—We are informed that the contract for constructing Melan arch bridge over Eagle Creek at Morris St. has been let to A. W. MOORE & CO., for $20,000. H. W. Klausmann, County Surv.

FRANKLIN, IND.—County Commissioners have awarded to the NATIONAL BRIDGE CO., of Indianapolis, the contract for South Main St. bridge over Young's Creek, for $6,874. The bridge is to be reinforced concrete, two arches, each 57 ft. span, with 24-ft. driveway paved with brick and a 6-ft. concrete walk on each side.

JEFFERSONVILLE, IND.—It is stated that the County Commissioners will receive bids until Oct. 2 for constructing an iron bridge with stone abutments at Lentz's ford. Geo. B. Parks, County Audr.

PORTAGE, WIS.—L. P. Wolff, Consult. Engr., of St. Paul, Minn., writes us that bids for substructure of highway bridge across the Wisconsin River at Portage, consisting of three concrete piers and two concrete abutments, were opened Sept. 20, as follows: SCHILLINGER BROS., Chicago, Ill., $13,331 (awarded contract); Milwaukee (Wis.) Bridge Co., $15,849; Wm. S. Hewitt & Co., Minneapolis, Minn., $16,343. Mr. Wolff further states that he is preparing detail plans for the superstructure, which will consist of four spans of 160 ft. each with 24 ft. paved roadway and one 6 ft. walk. Bids for this part of the work will be opened about Nov. 1.

WINONA, MINN.—City Council has let contract to OTIS ABELL, at $1,290 for reassembling Cater bridge and building abutments for same.

FLANDREAU, S. DAK.—Bids will be received by County Commissioners until Oct. 6 for furnishing materials and constructing all bridges required in this county for one year from date of contract. Asa Loucks, County Audr.

KANSAS CITY, MO.—Bids are asked by Oscar Koehler, Rd. and Bridge Comr., until Oct. 3 for construction of one 30-ft. stone arch bridge in Swope Park.

INDEPENDENCE, MO.—We are informed that the INTERSTATE BRIDGE CO. was awarded a contract on Sept. 21 for constructing approach to Indian Creek bridge. Contract price, $2,965.

KANSAS CITY, MO.—Bids are asked by the office of County Clerk until 11 a. m., Oct. 7, for constructing one 20-ft. steel bridge. Oscar Koehler, Rd. and Bridge Comr.

CONWAY, ARK.—A contract has been let by County Commissioners for construction of three steel bridges in Faulkner County to the CONVERSE BRIDGE CO., of Chattanooga, Tenn., at a total bid of $7,200.

KINGSVILLE, TEX.—The St. Louis, Brownsville & Mexico Railroad Co. will build a new bridge across the Arroyo Colorado. W. P. Homan is Ch. Engr., Corpus Christi, Tex.

PURCELL, IND. T.—J. W. Hooker is interested in a bridge to be built between this place and Lexington, at a cost of $30,000. It is stated that plans have been made and funds subscribed.

OKLAHOMA CITY, OKLA.—The Oklahoma City Interurban Railroad has let contract to JOHN W. TOWLE BRIDGE CONSTRUCTION CO., of Omaha, Neb., for construction of bridge across North Canadian River.

DURANGO, COLO.—W. H. Wigglesworth, Cy. Engr., writes us that the city will build a bridge across the Animas River on Main Ave. Plans are to be submitted for steel, concrete and stone. There will be two spans of 60 ft. each, 34 ft. roadway with 5-ft. sidewalks on each side.

NORTH YAKIMA, WASH.—Bids are asked by County Commissioners until 3 p. m., Oct. 3, for construction of a combination wagon bridge across Yakima River. W. B. Newcomb, County Audr.

EVERETT, WASH.—County Commissioners awarded contract for building new approaches and towers to Snoqualmie bridge to the EVERETT CONSTRUCTION CO., for $3,909.

BELLINGHAM, WASH.—Sealed bids will be received J. A. Miller, County Clk., until 10 a. m., Oct. 3, for construction of a pile trestle to connect the west approach of Marietta drawbridge.

SAN BERNARDINO, CAL.—The County Supervisors have appropriated $18,000 for the construction of bridges in the ensuing year. M. L. Cook is County Surv.

SONORA, CAL.—COTTON BROS. & CO., of Oakland, have been awarded contract for construction of bridge across Wood's Creek, for $6,979, and also for bridge across Sullivan's Creek, for $3,474.

LONDON, ONT.—It is stated that the Southwestern Traction Co. will build a steel bridge east of Richmond St., at a cost of about $18,000.

BUILDINGS.

The names of parties awarded contracts are printed in capital letters.

BURLINGTON, VT.—Bids are asked by Capt. T. B. Lamoreaux, Q. M., until 2 p. m., Oct. 7, for constructing, plumbing, hot water heating and gas piping of an addition to Post Hospital at Plattsburgh Barracks, N. Y.

BOSTON, MASS.—C. A. DODGE & CO., 8 Beacon St., Boston, were awarded contract for alterations to the A. Shuman & Co. Bldg., at Washington and Summer Sts., for $57,000.

NEW HAVEN, CONN.—C. Haight, Arch., 452 Fifth Ave., New York City, is taking figures on dormitory No. 2 for Yale University to be erected at New Haven, at Grove and Prospect Sts. Brick and stone, 5 stories, 90 × 320 ft. Cost, $100,000.

NEW LONDON, CONN.—Bids are asked by Constructing Quartermaster, New London, until Oct. 6 for constructing, heating, plumbing and electric wiring hospital at Fort Michie, N. Y.

BROOKLYN, N. Y.—Dime Savings Bank, Court and Remsen Sts., Brooklyn, will erect a new bank building. Stone and marble, 4 stories, 60 × 114 ft. Architect has not been selected.

BUFFALO, N. Y.—Bids are asked by Francis G. Ward, Comr. Pub. Wks., until 11 a. m., Oct. 3 for the erection of a new brick engine house on Seneca St.

BUFFALO, N. Y.—Plans and specifications have been prepared by D. L. Andrews, Arch., 357 Grant St., for block of stores and flats for F. M. Tallman, 368 Auburn Ave. Reinforced concrete will be used throughout.

NEW YORK, N. Y.—G. A. Fuller Co., 949 Broadway, will take figures soon on excavating for new office building, for which they have the general contract, to be erected at 115 Broadway. Building will conform in size and general interior design to new Trinity Bldg., at 111 Broadway. W. H. Kimball, 71 Broadway, is Arch.

McKim, Mead & White, Archs., 160 Fifth Ave., have sketches for new office building to be erected at Cortlandt, Church and Dey Sts., for the Hudson Tunnel Co.; W. G. McAdoo, Pres., 15 Wall St. Stone and marble, 20 stories, 200 × 2[illegible]0 ft. Working plans will soon be started. Cost $3,000,000.

H. Van Buren Magonigle, Arch., 7 West 38th St., will take figures by invitation on a $200,000 club-house to be erected at 116th St. and Fifth Ave., for the Ancient Order of Hibernians, care D. V. Clancy, 185 West 63d St. Brick, stone and terra-cotta, 5 stories, 85 × 100 ft.

JOHN F. DE BAUM, 1368 Broadway, has been awarded general contract for erecting $300,000 residence for E. Rollins Morse, 100 Broadway, at Fifth Ave. and 51st St. Brick and stone, fireproof, 5 stories, 30 × 100 ft. Ogden Codman, 571 Fifth Ave., is Arch.

C. B. Myers, Arch., 1 Union Sq., has plans in progress for an apartment house to be located at 1040 Clay Ave., Bronx, for Ury Goodman. Brick and stone, 5 stories, 100 × 220 ft. Cost, $150,000.

G. H. Shaffer, 474 Fourth Ave., will erect a stable to cost $75,000, at 313-15 East 31st St. Architect has not yet been selected.

Schwarz & Gross, Archs., 35 West 21st St., have plans in preparation for office building to be erected at 66 to 72 Lafayette St., for Israel Lippmann, 100 Broadway. Brick, stone and terra-cotta, semi-fireproof, 10 stories, 95 × 100 ft. Cost, $300,000.

The contract to build an addition to hospital at Ellis Island has been awarded the NORTHEASTERN CONSTRUCTION CO., of New York City, for about $100,000. Bids on all sub-contracts are now being received.

NEW YORK, N. Y.—J. R. Pope, Arch., 1135 Broadway, is taking figures on residence to be erected at 16 East 57th St. for Wm. S. Wells, 16 East 57th St. Brick and stone, 6 stories, 20 × 100 ft. Cost, $100,000.

Gotham Realty & Construction Co., 81st St. and Columbus Ave., care H. L. Felt, wants figures on engines, generators, boilers, elevators, pumps, etc., for the $100,000 apartment hotel to be erected at 86th St. and Central Park West. Mulliken & Moeller, Archs., 7 West 38th St. Brick and stone, 12 stories, 102 × 91 × 140 ft.

Buchman & Fox, Archs., 11 East 59th St., want figures on electric wiring for new residence to be erected at 79th St. and Madison Ave. for J. C. Lyons Building Co., 4 East 42d St. Brick and stone, 5 stories, 25 × 65 ft. Cost, $75,000.

Schwartz & Gross, Archs., 35 West 21st St., are taking figures on loft building to be erected at 66-72 Lafayette Place for Israel Lippman, 201 East 108th St. Brick and stone, fireproof, 8 stories, 95 × 100 ft. Cost, $300,000.

R. F. Almirall, Arch., 51 Chambers St., will take figures about Oct. 4 on the revised plans for new institution buildings to be erected at Mount Loretta, Staten Island, for the Mission of the Immaculate Conception. All buildings, 8 in number, will be of reinforced concrete construction.

F. A. Rooke, Arch., 489 Fifth Ave., is taking figures on a stable and office building to be erected at 406-8 West 45th St. for the Thorndale Farms, 901 Sixth Ave. Brick and stone, 5 stories, 50 × 96 ft., and will contain 75 stalls. Cost, $50,000.

Henry C. Meyer, 1 Madison Ave., has been appointed consulting engineer for the heating and ventilating work on new hotel to be erected at 11-15 East 45th St., for the Home Club Co., care W. C. Fiske, 62 Cedar St. Brick and stone. 9 stories, 65 × 77 ft. Gordon, Tracy & Swartout, Archs., 244 Fifth Ave.; A. R. Whitney, Jr., & Co., 135 Broadway, general contractors.

H. J. Hartenburgh, Arch., 1 West 34th St., has completed plans for new $500,000 club-house to be erected at 18-22 West 40th St., for the New York Club, care G. P. Shelden, Pres., 68 William St. Brick and stone, semi-fireproof, 8 stories. As soon as plans are approved by Board of Directors, bids will be taken by invitation.

RIVERDALE, N. Y.—L. WEBER BUILDING CO., 1 Madison Ave., New York City, has been awarded general contract for erecting residence at Riverdale, on the Hudson, for Henry Boettger, 125 Prince St., New York City, from plans by Reilly & Steinbeck, 481 Fifth Ave., New York City. Brick, 3 stories, 66 × 52 ft. General contract includes everything.

NAPANOCH, N. Y.—Superintendent Collins of the State Prison Department has awarded contract for construction of a trades school building at the Eastern New York Reformatory at Napanoch to the HUDSON VALLEY CONSTRUCTION CO., of Troy, for $35,000.

TUXEDO PARK, N. Y.—Bannister & Schell, Archs., 69 Wall St., New York City, want figures on alterations to residence here for Wm. Ellicott, 56 Wall St., New York City. Cost, $50,000.

JERSEY CITY, N. J.—The city contemplates the erection of a new building for police headquarters, to cost $75,000. Architect has not been selected.

NEWARK, N. J.—Benj. W. Morris, Jr., and W. A. Payne, Archs., 5 West 31st St., New York City, are taking bids on a residence to be erected at Mt. Prospect Ave. and Berkeley Ave., Newark, for J. G. Spurr, 129 Pleasant Ave., Newark. Brick and stone, 2½ stories, 40 × 90 ft.

JERSEY CITY, N. J.—M. J. CONNOLLY CO., 238 17th St., Jersey City, has been awarded general contract for erecting hospital in Jersey City. WATSON & FLAGG CO., 27 Thames St., New York City, was awarded contract for electric wiring. Clinton & Russell, 32 Nassau St., New York City, are Archs. Cost, $200,000. Previously noted.

ATLANTIC CITY, N. J.—Walter S. Mealey, Arch., Stephen Girard Bldg., Philadelphia, Pa., has about completed plans for a five-story addition to Hotel Dennis.

JERSEY CITY, N. J.—Scottish Rites of Masonic Order, care H. Onslon, 15 Exchange Place, Jersey City, contemplates the erection of a club-house to be erected at Jackson, Clinton and Monticello Sts., Jersey City. Architect has not been selected.

PERTH AMBOY, N. J.—Jas. S. Pigott, Arch., 188 Market St., Newark, and Howard Greenley, 33 Union Sq., New York City, are taking figures until Oct. 1 for residence to be erected at Perth Amboy for A. A. Orignes, Newark. Cost, $150,000.

JERSEY CITY, N. J.—DAVID HENRY BUILDING CO., of Paterson, has been awarded general contract for erecting church at 691 Westside Ave., Jersey City, for St. Aloysius R. C. Church. Chas. B. Edwards, of Paterson, is Arch. Granite and brick, 1½ stories, 70 × 170 ft. Cost, $75,000.

MONTCLAIR, N. J.—H. C. Pittman, Arch., 156 Fifth Ave., New York City, will take figures soon on residence to be erected at Montclair for H. C. Hallenbeck, of Montclair, Cost, $75,000.

PITTSBURG, PA.—S. B. Eisendrath, Arch., 41 West 24th St., New York City, has plans completed for new church to be erected at Pittsburg for Tree of Life Congregation, care H. Livingstone, Pres. Stone and brick, 2 stories, 70 × 140 ft.

Same architect has plans for hospital, to cost $100,000.

PHILADELPHIA, PA.—Ed. Hazelhurst, Arch., Girard Bldg., will prepare plans for a church, Sunday school and rectory, at 58th and Chestnut Sts., for the Episcopal Church of the Mediator. Cost, $100,000.

WM. STEELE & SONS, 16th and Arch Sts., have been awarded contract for an addition to office building at Tulip St. and Eyre Ave., for A. J. Reach & Co. Brick, 4 stories, 100 × 70 ft.

LEBANON, PA.—The contract for Y. M. C. A. building here has been let to DAVID BUFFAMOYER. Brick and stone, 3 stories, 60 × 130 ft.

ANNVILLE, PA.—WM. WEIKEL, of Lebanon, has been awarded contract for Science Hall for the Lebanon Valley College. Cost, $50,000.

BALTIMORE, MD.—The Municipal Board of Awards has awarded contract to J. HENRY MILLER, 110 Dover St., for construction of produce market on Center Market Space, at $119,067.

The Board has awarded contract to CHAS. L. STOCKHAUSEN, National Marine Bank Bldg., for construction of superstructure of fish market on Center Market Space, at $101,900. Simonson & Pietsch, Archs., American Bldg., Baltimore.

BALTIMORE, MD.—The Building Committee, John M. Carter, Chn., will receive bids until 3 p. m., Oct. 5, at the actuary's office of Maryland Institute, Richmond Market Hall, for the erection of new building for Institute at Mt. Royal Ave. and Lanvale St. Pell & Corbett, Archs., 31 Union Sq., New York City. Cost, about $400,000.

ANNAPOLIS, MD.—Bids were opened Sept. 20 at the Navy Department, Washington, D. C., for construction of an adminstration building at Naval Academy, Annapolis. The NOEL CONSTRUCTION CO., of Baltimore, was awarded the contract, at $59,000.

WASHINGTON, D. C.—Bids are asked by Elliott Woods, Supt. U. S. Capitol Building and Grounds, until 2 p. m., Nov. 8, for electric light fixtures for House and Senate wings, U. S. Capitol Building. (Advertised, Engineering News.)

WASHINGTON, D. C.—Bids are asked by Capt. John Stephen Sewell, U. S. Engrs., until noon Oct. 26 for roofwork and skylights for Army war college building. (Advertised, Engineering News.)

NORFOLK, VA.—The Colonial Corporation Co., of Norfolk, will erect a seven-story theater and hotel building, at a cost of $150,000. C. A. Woodward and others are interested.

WINCHESTER, VA.—The building committee of the Board of Trustees of the Handley fund has ordered detailed plans and specifications for new $250,000 library to be erected at Winchester from funds of the estate of Judge John Handley, of Scranton, Pa., who left the bulk of his fortune to this city. The contract will be awarded within a few weeks.

RICHMOND, VA.—This (Henrico) county will erect a new jail, at a cost of $50,000.

RICHMOND, VA.—We are informed that JOHN T. WILSON, of Richmond, and 1 Madison Ave., New York City, has been awarded contract for the erection of new auditorium and rebuilding Jefferson Hotel; 10 stories, fireproof construction. Cost, about $600,000. Work will be commenced at once.

MADISON, GA.—The county has voted to issue $40,000 of bonds for court-house.

JACKSONVILLE, FLA.—A Catholic church will be erected here, to cost $125,000. Father Maher can give information.

ENSLEY, ALA.—Gordon Du Bose will erect 24 residences here.

SPARTA, TENN.—A new jail will be erected for this (white) county.

MONTICELLO, KY.—Bids are asked by J. A. Patton, Secy. Bd. of Trustees, until Oct. 4 for building a brick school-house. H. L. Rowe, Arch., Lexington, Ky.

TOLEDO, O.—J. J. Duck was the lowest bidder, at $7,000, for installation of a system of electric wiring and fixtures in U. S. custom-house at Toledo, bids for which were opened Sept. 19.

SULPHUR, IND.—Dr. D. M. Decmond, of St. Louis, Mo., will erect a sanitarium here, at a cost of $125,000.

INDIANAPOLIS, IND.—The general contract for construction of John Herron Art Institute, 16th and Pennsylvania Sts., has been let to BRANDT BROS., of Indianapolis, for $49,124. The general contract does not include the interior finish, which will be contracted for later. Vongut & Bohn, Archs.

HAMMOND, IND.—Plans have been ordered by the School Board for new $25,000 school-house in this city. Bids will be received for the construction of new building and also for improvements on two other school buildings.

MUNCIE, IND.—The Delaware Masonic Lodge, No. 46, will receive bids for construction of a three-story lodge hall. Est. cost, $50,000.

FORT BRADY, MICH.—Bids are asked until 11 a. m., Oct. 14, for labor and material for repairing guard house and constructing administration building at this post. Lt. C. S. Hoffman, Q. M. (Advertised, Engineering News.)

CHICAGO, ILL. — The Buildings and Grounds Committee of the Board of Education has directed the architect of the Board to push work on plans for new school buildings, and it is expected that within a few months contracts will have been let for 40 new buildings or extensions to present buildings. Two engineers and two draftsmen are to be added to the architect's present staff.

TOMAH, WIS.—Bids are asked by C. F. Larrabee, Act. Comr., Indian Affairs, Washington, D. C., until Oct. 19 for constructing, complete, at the Tomah School, an industrial building and a dormitory, both of brick, with plumbing, steam heat and electric light. L. M. Compton, Supt.

GREEN BAY, WIS.—Bids are asked by F. E. Leupp, Comr. Indian Affairs, Washington, D. C., until 2 p. m., Oct. 27 for constructing complete at the Menomonee School, Green Bay Agency, school buildings with water and sewer. Shepard Freeman, Supt., Keshena, Wis.

ST. PAUL, MINN.—About $350,000 has been raised by popular subscription for the purpose of erecting an auditorium in this city. A. H. Lindeke and L. S. Cushing are interested.

Martin Beck, Mgr. Orpheum Theater Circuit Co., has purchased property at St. Peter and Fifth Sts., upon which will be erected a fireproof theater, at a cost of $250,000. Ground will be broken shortly.

The Park Board has ordered Architect Jas. A. MacLeod, 649 Endicott Bldg., to advertise for bids for new Como Park pavilion. Cost, $40,000.

LINCOLN, NEB.—Bids are asked by James Knox Taylor, Supervising Arch., Washington, D. C., until 3 p. m., Oct. 19 for installation of electric passenger elevator and hydraulic lifts in U. S. custom-house and post-office building at Lincoln. (Advertised, Engineering News.)

LINCOLN, NEB.—The following bids were opened Aug. 24 at office of Jas. Knox Taylor, Supv. Arch., Washington, D. C., for steam heating apparatus for U. S. court-house and post-office building at Lincoln: A. J. Archambo, Minneapolis, Minn., $14,500; E. J. McDonough & Co., Chicago, Ill., $17,992; Iowa Mfg. Co., Oskaloosa, Ia., $15,732; T. M. Maguire, Minneapolis, $16,129.

FORT MEADE, S. DAK.—Bids are asked by Major Geo. K. Hunter, Constructing Q. M., until 2 p. m., Oct. 13 for window screens, storm sash and storm vestibules for six public buildings at Fort Meade. (Advertised, Engineering News.)

HOUSTON, TEX.—A Jewish synagogue is to be erected here, to cost $40,000. Chas. Page, of Austin, is Arch.

BALLINGER, TEX.—This town will issue $20,000 of bonds for the purpose of erecting new public school building. Address the Mayor.

FORT SAM HOUSTON, TEX.—Bids are asked by L. J. Fleming, C. Q. M., until Oct. 18 for constructing, plumbing, heating and electric wiring at Ft. Sam Houston, of one lavatory for band, eight single and two double lavatories for companies. Also, for furnishing wire screens for all doors and windows in 33 buildings in new cavalry and artillery addition to Ft. Sam Houston.

DALLAS, TEX.—Sanger Bros. will erect a five-story business house.

DALLAS, TEX.—A $40,000 charity hospital will be erected here. Mrs. Dr .E. N. Gray and Mrs. T. W. House are interested.

FORT WORTH, TEX.—W. W. Sloan will erect a $50,000 apartment house here.

VANCOUVER BARRACKS, WASH.—Bids are asked by Constructing Quartermaster, until 11 a. m., Oct. 18 for constructing, including plumbing, heating and electric wiring of two double infantry barracks, two double quarters for lieutenants and one double quarters for captains.

LOWELL, ARIZ.—J. E. Thompson has plans for new hotel which he proposes to build in Lowell on the Johnson addition.

TORONTO, ONT.—The St. Clarens Ave. Methodist Church has decided to erect a new church, at a cost not to exceed $75,000.

OTTAWA, ONT.—A 12-story addition is to be built to the Russell House and two more elevators installed.

WATER SUPPLY—IRRIGATION.

The names of parties awarded contracts are printed in capital letters.

LOWELL, MASS.—We are advised that contract for 8,000,000-gallon, vertical, triple expansion, crank and fly-wheel pumping engine has been let to HOLLY MFG. CO., Buffalo, N. Y., for $19,700. It is to be completed in three months, is to have a guaranteed duty of 120,000,000 ft.-lbs.; steam pressure of 125 lbs. at boiler, head suction of 25 ft., and discharge of 35 ft. Bids were opened Sept. 7. Robert J. Thomas, Supt. W.-W.

GREAT BARRINGTON, MASS.—Fire District has voted to issue $5,000 of bonds for raising dam at East Mountain reservoir and repair work, and $5,500 to rebuild Berkshire Heights reservoir.

LYONS FALLS, N. Y.—Bids are asked by Village Trustees, Frank Hoskins, Pres., until noon Oct. 12 for construction of waterworks, consisting of a reservoir and about 4¾ miles of cast iron mains with hydrants and appurtenances. Knight & Hopkins, Engrs., Rome, N. Y. (Advertised, Engineering News.)

LAKEWOOD, N. Y.—Bids are asked by Ralph H. Maxson, Village Clk., until 8 p. m., Oct. 9 for constructing water-works, consisting of 328 tons pipe and specials, 50 hydrants, 20 valves and one concrete reservoir. (Advertised, Engineering News.)

LIBERTY, N. Y.—Contract for constructing new filter beds and auxiliary reservoir at Loomis Sanitarium has been let to MESSLER & MATZINGER.

NEW YORK, N. Y.—J[illegible] T. Oakley, Water Comr., is reported [illegible]e awarded contract for eight electrical[illegible]ven pumps for the two downtown high [illegible]e fire service stations in Brooklyn, [illegible] D'OLIER ENGINEERING CO., 79 Co[illegible] St., New York, at a total of $175,383. [illegible] were opened July 16.

LIVINGSTON MANOR, N[illegible] Livingston Manor Water Co. is stated [illegible]e making preparations to rebuild [illegible] Wm. Chadeavne, Firthcliffe, N. Y[illegible]id to be Engr.

COXSACKIE, N. Y.—Mat[illegible] increasing village water supply is und[illegible]deration. Frank H. Sutherland is Villa[illegible]

HOPEWELL, N. J.—Borou[illegible] voted to issue $15,000 of bonds, $7,6[illegible]h is for purchase of local water-works, [illegible] remainder for water-works improvem[illegible] extensions.

PLAINFIELD, N. J.—Plainf[illegible]ter Supply Co. has awarded contra[illegible] R. D. WOOD CO., Philadelphia, for a [illegible]ump of 6,000,000 gallons capacity to b[illegible] at the pumping station on North A[illegible] The company has also awarded a con[illegible]or three sets of boilers to TIPPETT & W[illegible] of Phillipsburg.

GARFIELD, N. J.—Contract [illegible]onstructing reservoir for this city, bids [illegible]d Sept. 20, has been awarded to J. C[illegible]ERNEY, Bogota, N. J., at the followin[illegible] Reservoir complete, $4,925; concrete, [illegible]u. yd., $7; 4-in. drain pipe, per lin[illegible] 25 cts.; trench not over 4½ ft. deep, 20[illegible] trench 4½ ft. to 6 ft. deep, 30 cts.; rock [illegible]avation, per cu. yd., $1.50; earth excava[illegible] per cu. yd., 50 cts.; 12-in. cast iron [illegible] per lin. ft., $1.80.

ORANGE, N. J.—Bids are ask[illegible] by chairman Committee on Water until 8 [illegible] m., Oct. 9, for constructing a distribut[illegible] reservoir and for furnishing and laying a[illegible] 8,000 ft. 20-in. and 19,000 ft. 24-in. cast-iron mains and appurtenances. Alternative bids will be received for 19,000 ft. of 30-in. cast-iron mains, etc. Fred T. Crane, Cy. Engr. (Advertised, Engineering News.)

PHILADELPHIA, PA.—Bids will be opened by Department Public Works, Bureau of Filtration, at Room 412, City Hall, Oct. 3 for pumping out Torresdale conduit.

Bids are asked by Department of Supplies, Frederick J. Shoyer, Dir., 312 City Hall, until 10 a. m. Oct. 2 for meters, meter connections and telephones.

AUSTIN, PA.—We are informed that owing to the fact that pipe could not be obtained before November, the construction of waterworks for this borough will not be begun until spring. Supply is to be from springs, ¾ mile distant, and est. cost is $22,000. J. F. Witmer, Chapin Block, Buffalo, N. Y., is Engr; H. D. Caskey, Secy. Council.

WASHINGTON, PA.—Washington Water Supply Co., capitalized at $10,000, has applied for charter to furnish Washington Township with water. Supply is to be obtained from springs and system is to be gravity one. John W. Balliet and H. W. Blose, of Slatington, Pa., Jesse L. Gabel, Ira E. Sejdel and Nathan M. Balliet, of Lehighton, Pa., are interested.

MANCHESTER, VA.—Bids are asked until 5 p. m. Sept. 29 for repairs to city water tower. C. H. Sharp, Supt. W.-W.

FORT MYER, VA.—Following bids were opened Sept. 15 at the office of the general depot of the quartermaster's department, Washington, D. C., for constructing intake pipe and steel tank and trestle for water supply system at Fort Myer; (1) intake pipe, (2) steel tank and trestle: George C. Thomas, New York, (2) $5,613; time, 120 days. McCay Engineering Co., Baltimore, Md., (1) $15,900, (2) $5,879; time, 100 days. John Baizley Iron Works, Philadelphia, Pa., (1) $18,369, (2) $8,618; time, 4 months. New Jersey Foundry & Machine Co., New York, (2) $7,875; time, 150 days. D. W. Darby, (1) $12,700; time, 3 months. Horace E. Horton, Chicago, Ill., (2) $6,600; time, 8 months.

NEWPORT NEWS, VA.—Newport News Light & Water Co. is said to be having plans prepared for a filtration plant, which is to cost $125,000. The plant will be installed at the company's reservoir, about 18 miles above the city.

BARBOURSVILLE, W. VA.—Cabell Investment & Development Co., capitalized at $25,000, has been chartered to construct and manage a system of water-works at this place. D. Blain Shaw, M. W. Bowden, B. E. Shaw, D. W. Shaw and Ray M. Ayers, all of Barboursville, are incorporators.

DAWSON, GA.—The Mayor writes that extensions will be made to local water-works. J. B. McCrary, Senoia, Ga., is Engr. Press reports state that city has voted $45,000 bond issue, $30,000 of which was to be used for purchase of local water-works, and the remainder for improving the system.

DAYTONA, FLA.—We are informed that a municipal franchise for water-works is pending before the council. If the franchise is allowed, as it probably will be, the applicants will be in the market for bids for a plant, the estimated cost of which is $65,000. A pumping station and deep well pump will furnish supply, and two compound pumps and stand-pipe will be used. Sufficient piping will be used for a city of 6,000 population. About 85 fire hydrants and meters for perhaps 400 connections will be installed. J. Hall Brumsey, De Land, Fla., is one of the applicants for the franchise.

APALACHICOLA, FLA.—City has voted to issue $50,000 of bonds for installing waterworks and sewerage.

NEW ORLEANS, LA.—Bids are asked by Bureau Yards and Docks, Washington, D. C., until 11 a. m., Oct. 21, for drilling an artesian well at New Orleans naval station. Specifications may be seen at office of Engineering News, 220 Broadway, New York.

ABBEYVILLE, LA.—William McIntosh, Houston, Tex., according to report, is to prepare plans and specifications for waterworks and sewers for the city.

CLINTON, TENN.—I. L. FAUCETTE, Chattanooga, Tenn., and W. B. CRAWFORD, Oliver Springs, Tenn., are said to have contract for installing water-works here.

CINCINNATI, O.—Malarkey & Underhill, of St. Bernard, at $8,695, were low bidders Sept. 15 for laying water mains in Carthage Pike.

EAST LIVERPOOL, O.—Bids are asked by Board Public Service, J. W. Gipner, Secy., until noon, Oct. 3, for labor and material for 930 ft. 10-in. main, and 330 ft. 8-in. main.

LEESBURG, O.—Village voted for water-works.

TOLEDO, O.—Board Public Service has awarded contract for construction of 7,000 ft. concrete conduit to WILLIAM and JOHN McMAHON, Toledo, at $66,370. Bids were opened Sept. 7 and were given under Contract Prices in our issue of Sept. 21.

HUNTINGBURG, IND.—Bids are asked by this city, August F. Becker, Clk., until 7.30 p. m., Oct. 2, for construction of an intake for new water-works lake.

SCOTTSBURG, IND.—Franchise for water-works here is stated to have been granted to Warren Smith.

WEST TERRE HAUTE, IND.—Franchise for erecting water-works here has been granted to Burton Cassidy and Charles Ehrmann, Terre Haute, Ind.

ESCANABA, MICH.—Escanaba Water Co., according to reports, may install filtration system, to cost $50,000. L. E. Chapin, Canton, O., is Consult. Engr.

IRON RIVER, MICH.—E. G. Bradbury, Engr., 85 North High St., Columbus, O., has made a preliminary report on further development of springs for increasing supply of this place. P. Keely, Village Pres., is official in charge.

HEBRON, ILL.—We are advised that the bids opened Sept. 7 for constructing village water-works were rejected. New bids will not be taken before Oct. 15. Special assessment roll was quashed by court on a technicality. Guy C. Lemmers is Village Clk. (See issue Sept. 7.)

PAXTON, ILL.—Bids are asked by City Council, E. M. Grayson, Cy. Clk., until 6 p. m., Oct. 2, for construction of 25 ft. diameter tank, with 20-ft. staves made of 3-in. Louisiana tank grade, clear cypress.

MOLINE, ILL.—Referring to a report that this city was taking bids for improvements to its filter plant, we are informed that a complete filter plant was constructed two years ago, and it is not intended to erect another. The report, probably came from the fact that there is some talk of erecting a shed or storage room for coal. C. G. Carlson is Cy. Clk.

LIBERTYVILLE, ILL.—Bids are asked by Board Local Improvements, Paul McGuffin, Pres., until 7.30 p. m. Oct. 5 for laying 3,050 ft., 8-in., 28,650 ft. 6-in. and 612 ft. 4-in. cast iron water pipe, together with fire hydrants, valves, etc. James Anderson, Jr., Engr., Lake Forest, Ill. (Advertised, Engineering News.)

READSTOWN, WIS.—Bids are asked until 7.30 p. m., Oct. 5, by H. M. Pond, Village Clk., for one 12 HP. gasoline engine, one single acting, 150-gallon triplex pump, laying 4,000 ft. of 6 in. cost iron water pipe and setting 8 hydrants and 4 valves. W. G. Kirchoffer, Consult. Engr., Madison, Wis.

PORT WASHINGTON, WIS.—This city has voted for municipal water-works and a light plant. Supply will be from Lake Michigan, and work, according to reports, will be begun at once.

SPIRIT LAKE, IA.—Town was to vote Sept. 26 on selling municipal water-works, electric and heating plant and granting 20-year franchise to S. M. Johnson, Spirit Lake.

LAKIN, KAN.—Colorado parties, owners of the Great Eastern Ditch near Deerfield, Kan., are stated to have had a preliminary survey made and grade stakes set for the construction of a large reservoir intended for irrigation purposes in a prairie valley four miles northeast of this place.

ROSEDALE, KAN.—We are advised that bond issue for water-works extension was defeated at special election. Matter may be taken up again at special election next spring.

GLENDIVE, MONT.—Bids are asked until 10 a. m., Nov. 15, for construction of about 33 miles of main canal and about 24 miles of branches and laterals between Newlon, Mont., and Buford, N. Dak., involving excavation of 1,587,500 cu. yds. material in Fort Buford Project. (Advertised, Engineering News.)

MISSOULA, MONT.—Blodgett Creek Reservoir Co. has been incorporated and proposes to construct a reservoir for irrigation of 4,000 acres. H. S. Page, James Dunbar and Henry Grover are interested.

SANTA ANNA, TEX.—Santa Anna Water & Gas Co., capitalized at $25,000, has been chartered here to bore artesian wells and supply water. W. B. Mitchell, L. W. Hunter, W. L. Grady, T. R. Sealy are incorporators.

BROWNSVILLE, TEX.—Chester B. Davis, Dallas, Tex., is to design an irrigation system to take care of 100,000 acres of land near Brownsville.

COLORADO SPRINGS, COLO.—Local reports state that Fountain Valley Land & Irrigation Co., W. C. Johnston, Pres., has awarded a $180,000 contract to EDWARD HONNEN for building new reservoir. The new reservoir will be located about eight miles south of Colorado Springs, and will have a capacity of a little over 900,000,000 cu. ft. of water, and will provide irrigation for 20,000 acres of garden and fruit tracts.

DURANGO, COLO.—Local reports of Sept. 15 stated that Dr. J. F. Moore was in this place arranging to extend the Ignacio Mesa ditch, which is intended to irrigate 20,000 acres of land in the vicinity of Ignacio and Bayfield. The enterprise contemplates the expenditure of $125,000. The water will be taken from Los Pinos River.

DAVIS, IND. T.—City will vote on spending $25,000 for water-works. J. W. Bullock is to prepare plans and specifications.

BURLINGTON, WASH.—Franchise for water-works of sufficient capacity to supply city of 5,000, has been granted to A. L. Morris and associates, of Everett, Wash. Work is to begin by Dec. 1.

HARRINGTON, WASH.—City votes Oct. 14 on a $23,000 bond issue to be used for purchase of local water system.

WHITE SALMON, WASH.—A Goldendale, Ore., report states that citizens of this place are considering the construction of an irrigation system. J. C. MacInnes is looking into the legal phases of the work. It is proposed to bond the district for $50,000 for the construction of the system.

EUGENE, ORE.—City has voted to issue $200,000 of bonds for municipal water-works and an electric light plant.

HOOD RIVER, ORE.—Local reports state that permanent survey has been completed for Hood River Irrigation District, F. C. Sherrieb, Director, and that it is hoped to call for bids soon for the bonds.

BAKER CITY, ORE.—Meadows Irrigation Service Co., principal office Baker City; capital stock, $25,000, has been incorporated by Emil Melzer, Fred R. Nellis and Isidor Fuchs.

STOCKTON, CAL.—The Calaveras Land & Irrigation Co., D. W. Miller, of Linden, Cal., Mgr., and W. H. Bonham, Secy., has filed claims of 20,000 miners' inches of water of the Calaveras River. It is intended to divert the water by means of a concrete headgate and a ditch 16 ft. wide and 6 ft. high, or deep, from the point of diversion across to North slough, thence along that slough and old Calaveras River to a system of ditches.

SALT LAKE CITY, UTAH.—Following applications for waters in Unitah Reservation have been filed with the state Engineer: James H. Nease, Vernal, Utah, 250 second ft. from east of Rock Creek, canal to be 30 ft. wide, 6 ft. deep and 20 miles long; Geo. M. McConaughty and Francis R. Hardie, Salt Lake City, 1,600 second ft. to water 83,840 acres; Byron S. Kershaw, American Fork, Utah, 51 second ft. from Duchesne River, canal to be 25 miles long, including laterals.

LEHI, UTAH.—A Commercial Club committee, headed by James H. Gardner has filed on 40 second ft. of water in Utah Lake. It is proposed to install a pumping plant and to irrigate 3,000 acres. Cost would be about $50,000.

HUNTINGTON, UTAH.—Huntington Canal & Agricultural Association has increased capital stock from $40,000 to $60,000, and will use the proceeds, it is said, to build a reservoir.

GREATERVILLE, ARIZ.—The Robinson-Arizona Co.; operating in the placer section at Greaterville, has asked the Interior Department to be allowed to build a reservoir with a capacity of 3,500,000 gallons to be used in its placer operations.

WOODSTOCK, ONT.—City has voted by-law to grant $50,000 for improving water and light system.

SEWERAGE.

The names of parties awarded contracts are printed in capital letters.

PROVIDENCE, R. I.—Commissioner of Public Works is reported to be calling for bids for construction of sewers in the following streets: West River St., from Cross to Burke St.; in Grotto Ave., from Penrose Ave. to Irving Ave., and in Andem St., from Canton to Burgen St.

ALBANY, N. Y.—Bids are asked by Board Contract and Supply, Isidore Wachsman, Clk., until 3 p. m., Oct. 2, for labor and material for construction of vitrified stoneware pipe sewer in Elk St. and Steuben St., and brick and concrete sewer between Western Ave. and Chestnut St.

AUBURN, N. Y.—We are advised that city has awarded contracts for sewer work as follows: Franklin St. and Seward Ave. sewers, BRAZER BROS., Auburn, N. Y., for $2,400; Milligan and Cornell Sts., sewer, JERRY CORKERY, Auburn, N. Y., $1,900.

MOUNT MORRIS, N. Y.—Village votes Oct. 2 on issuing bonds for construction of sewerage and sewage disposal works. Est. cost is between $40,500 and $45,000, and maps and plans have been approved by State Department of Health.

NEW YORK, N. Y.—Bids were received Sept. 19 by Louis F. Haffen, Pres. Bronx Borough, for constructing sewers, the three lowest bidders being as follows: Brick and pipe sewers in West 176th St., Sedgwick Ave. and The Summit—Burns & Rodgers, 1009 Amsterdam Ave., New York, $28,856; Briggs & Mc Laughlin, 19 East 130th St., New York, $32,498; Cunningham & Kearns, 437 East 91st St., $33,425. Brick and pipe sewer in Clay Ave. and other streets—Geo. M. Dunn, 737 East 171st St., New York, $29,353; Burns & Rogers, 1909 Amsterdam Ave., New York, $30,437; C. W. Collins, Fordham, N. Y., $32,796.

BALLSTON SPA, N. Y.—The Board of Trustees have awarded the contract for a new sewer disposal system to BROWN & LOWE, Schenectady, N. Y. Their bid of $100,000 was the lowest of ten. The contract will be modified so as to reduce it to about $80,000, the amount of the appropriation, by substituting crushed field stone instead of quarry stone, for the contact beds. Bids were opened Sept. 7.

MOHAWK, N. Y.—Election is to be held Sept. 30 to vote on construction of sewer system to cost $40,600.

NIAGARA FALLS, N. Y.—Bids were opened Sept. 19 by Board Public Works for constructing sewer extensions, the lowest bidders being as follows: Simon Ferreti, extension 161, $1,280, extension 162, $3,110; W. A. Shepherd & Co., extension 163, $1,425; W. H. Cockman, extension 164, $1,670.

CAPE MAY, N. J.—Bids are asked by City Council, F. Sidney Townsend, Pres., until 8 p. m., Oct. 16 for constructing about 6,120 lin. ft. cast iron pipe sewer, with manholes, etc. De Witt D. Barlow, Cy. Engr. (Advertised, Engineering News.)

MONMOUTH BEACH, N. J.—Summer residents here are stated to have had details and plans prepared for construction of sewer system to cost $65,000. Matter may be voted on at special election. John W. Slocum is Township Council. Post-office is Long Branch, N. J.

NEPTUNE CITY, N. J.—This township, according to reports, may grant franchise for installation of sewer system. Post-office is Avon-by-the-Sea, N. J.

MERCHANTVILLE, N. J.—This borough will build a complete system of sewerage, in all about 8 miles. It will include a septic tank and disposal plant complete. All communications should be sent to A. W. MacCallum, Chn., Merchantville.

NORRISTOWN, PA.—Specifications for sewer here are on file at office of Engineering News, 220 Broadway, New York City. Bids will be opened Oct. 10, as advertised in Engineering News.

READING, PA.—Board Public Works is stated to have awarded contract for construction of sewers in five districts to DAVID PEOPLES, Philadelphia, Pa., for $573,146. Contract for house sewer mains is stated to have been let to JOSEPH P. O'REILLY, Reading, Pa., at $22,648. Bids were opened Sept. 14.

VERSAILLES, PA.—Bids are asked by R. H. McClure, Pres. Boro. Council, 318 Walnut St., Versailles, until 7.30 p. m., Oct. 5, for surveying a sewer system in this borough. Post-office is McKeesport, Pa.

BALTIMORE, MD.—Sewerage Commission will ask for an appropriation of $1,000,000 to meet the expenses of the first year's work in constructing the sewerage system. B. T. Fendall is Cy. Engr.

PARKERSBURG, W. VA.—Bids are asked by Board of Affairs, until noon Oct. 11, for construction of 1,500 ft. 6 ft. two-ring brick sewer and 500 ft. 5 ft. three-ring brick sewer, together with masonry outfall. J. V. Dunbar, Cy. Engr.

DAWSON, GA.—Bond issue with which to install sewerage will be voted on.

ST. AUGUSTINE, FLA.—We are informed that the City Engineer will have plans for proposed sewer system completed in about one month, when they will be placed before the council for approval.

LAKE CITY, FLA.—Bids are asked by Board Bond Trustees, J. C. Sheffield, Chn., until noon Oct. 20, for material and construction of sanitary sewer system, consisting of about seven miles of 6-in. to 12-in. pipe sewers. W. W. Lyons, Engr., Palatka, Fla. (Advertised, Engineering News.)

WOODLAWN, ALA.—C. E. Brown, Cy. Engr., has been directed to make surveys for sanitary sewers for this place.

NEWTON, MISS.—The Mayor writes that town will do its own work of construction of 12-in., 18-in. and 24-in. pipe sewers. J. D. Carr is Des. Engr.

LEXINGTON, KY.—Bids were received Sept. 13 by Mayor Thomas A. Coombs for constructing main sewers. A press report of Sept. 15 stated that the contract would be awarded to either Hill-Gaynard Construction Co., East St. Louis, Ill., or Guild & Co., Chattanooga, Tenn., these firms being the two lowest bidders, at $78,049 and $82,819, respectively.

PADUCAH, KY.—Map of proposed new sewerage district is now being made in city engineer's office.

AKRON, O.—Council is considering legislation necessary to begin $40,000 sanitary sewers in South Akron.

CHAGRIN FALLS, O.—Matter of issuing $15,000 of bonds for constructing sewage disposal plant and sewers will be voted on.

SPRINGFIELD, O.—City will vote Nov. 7 on a bond issue of $225,000 to pay the cost of constructing outfall and main intercepting sewers. The city engineer's estimates of cost of the main trunk sewers and the parts of the system which must be built before the laterals can be constructed are as follows: Low level intercepting sewer, $79,755; outfall sewer, $26,632; pumping station, $12,000; disposal plant, $103,000.

PRINCETON, IND.—We are advised that this city is to construct storm and sanitary sewers. Bids will be opened Oct. 20. H. E. Taylor, Clk. Com.

RIVERSIDE, IND.—Contract for construction of main sewer here has been let to H. C. RUSSEY, Muncie, Ind., for $4,124.

MIDLAND, MICH.—City votes to bond for $8,333 to construct sewers in Butler and Hubbard Districts.

ANN ARBOR, MICH.—Contract for sewer in North Main St. was let to EMANUEL SCHNEIDER, for about $2,500.

IRON RIVER, MICH.—We are advised that E. G. Bradbury, 85 North High St., Columbus, O., is making plans for sewers.

GLENCOE, ILL.—Bids are asked by Village Council, G. D. Hall, Village Clk., until 8 p. m., Oct. 10, for construction and installation of sewerage purification plant. Frank A. Windes, Engr., Winnetka, Ill. (Advertised, Engineering News.)

CHICAGO, ILL.—Contracts for the northern division of the interception sewer system have been awarded as follows: (1) Lawrence Ave. conduit, 8,218 ft. of tunnel 16 ft. diameter, W. H. McGOVERN, Chamber of Commerce, $79.50 per lin. ft., $653,331; (2) Lawrence Ave. pumping station, at Evanston Ave. (with Bedford stone trimmings), JOHN P. AGNEW, Unity Bldg., Chicago, $173,186; (3) intake tunnel under the lake 1,370 ft. long, 14 x 20 ft. section, with lake intake shaft, JOHN P. AGNEW, $138.33 per lin. ft., $180,512; (4) intake crib and protection pier, GREAT LAKES DOCK & DREDGING CO., $94,890.

CHICAGO, ILL.—The Board of Public Improvements will call for new bids for the construction of the 95th St. sewer system. The first set of bids were rejected as being too high. But two bids were received. R. F. Conway & Co., at $815,000 submitted the lowest bid. The est. cost of the work is about $750,000.

CHICAGO, ILL.—Bids for new intake at Lawrence Ave. to connect with new Lawrence Ave. intercepting sewer system and pumping station were opened by Department Public Works, Sept. 14 and the contract awarded to GREAT LAKES DREDGING & DOCK CO. The intake will be built 1,600 ft. out in the lake and will connect with a 16-ft. tunnel.

PEORIA, ILL.—City engineer is stated to be making preliminary plans for drainage system for North Peoria. Est. cost is about $300,000.

CRESTON, IA.—Bids are asked by A. W. Schimpff, Cy. Clk., until 8 p. m., Oct. 2, for construction of 730 ft. of 6-in. pipe sewer.

DES MOINES, IA.—Bids are asked by Board Public Works, W. W. Wise, until 11 a. m., Oct. 7, for constructing a 24-in. vitrified clay pipe sewer on Hayes St., from the west line of East Sixth St. to connection with intercepting sewer at about Fourth St.

IDA GROVE, IA.—We are advised that sewer system for this place is projected.

CARROLL, IA.—Following bids were received Sept. 18 by Geo. A. Hoffman, Cy. Clk., for constructing sewage disposal plant and sewers: O. P. Herrick, Des Moines, Ia., $9,000; R. C. De La Hunt, Cedar Rapids, Ia., $8,242; W. D. Lovell, Minneapolis, Minn., $7,900; FRED J. FRANZWA, Carroll, Ia., $7,643 (awarded contract). The above work consists of a septic tank of about 80,000 gallons capacity with centrifugal sludge pump, of two sand filter beds each containing 13,000 sq. ft. of surface, and of about 770 ft. of 18-in. sewer leading to the same. A. Marston, Engr., Ames, Ia.

ROCHEESTER, MINN.—Contract for building east side sewer was let to W. C. FRASER, Rochester, for $16,975.

ST. PAUL, MINN.—According to preliminary estimates of L. E. Rundlett, Cy. Engr., proposed Thomas St. sewer will cost $28,587, and proposed sewer in Railway Pl. and other streets will cost $28,165.

HUTCHINSON, KAN.—We are advised that contract for 1,400 ft. 15-in. tile sewer and 1,000 ft. 12-in. tile sewer, and 17 manholes, was let to O. F. DAVIS. T. G. Elbury is Cy. Engr.

OSAGE CITY, KAN.—City Council and the Commercial Club have adopted plans for the immediate construction of a sewer system in this city. The preliminary topographical surveys have been made and plans completed for the work.

NORFOLK, NEB.—Andrew Rosewater, Cy. Engr., Omaha, Neb., is stated to have about completed plans for sewer system for this place.

STURGIS, S. DAK.—Contract for construction of 1,500 lin. ft. of 6-in. sewer and three manholes has been let to W. W. DUNNEGAN, Shenandoah, Ia., for $1,012.

SAN ANTONIO, TEX.—Following bids were received Sept. 13 by Chief Quartermaster for the construction of a sewer outlet at Fort McIntosh: Machenheimer & Leiber, $5,700, $5,200, $4,700. F. J. Sergeant and John McClintock, Houston, Tex., $4,420, $4,020, $4,160.

FORT WORTH, TEX.—Following bids are stated to have been opened Sept. 15 by this city, John B. Hawley, Cy. Engr., for completion of sewer system: R. C. Storrie, New Orleans, La., $96,701; McClintock & Sargeant, Laport, Tex., $72,473; J. O. Severns, Guthrie, Okla. T., $87,326; Charles T. Derr, Guthrie, Okla. T., $83,416; J. W. Moore, Lampasas, Tex., $82,286; N. S. Sherman, Oklahoma City, Okla., $81,112; American Light & Water Co., Kansas City, Mo., $75,383; E. G. Trueheart, Galveston, Tex., $80,428; McQuatters Machine & Plumbing Co., Hillsboro, Tex., $72,862. The contract is reported to have been let to McCLINTOCK & SARGEANT.

PORT TOWNSEND, WASH.—H. M. Bennett has applied for franchise to construct sewer system here.

TACOMA, WASH.—We are advised that bids will be called for about Dec. 1 for constructing terra cotta sanitary sewer; est. cost, $22,730. Frank L. Davis is Cy. Engr.

NORTH YAKIMA, WASH.—City Engineer is to prepare plans and estimates for a sewer system.

GRANTS PASS, ORE.—Bids are reported asked by John M. Booth, County Audr., until 8 p. m., Oct. 20 for construction of 14,465 ft. of sewer in this city.

SAN JOSE, CAL.—College Park Sanitary Board has awarded the sewer contract to CHARLES WEHNER, of San Jose, for $47,000. Work consists of 13 miles of piping.

SAN JOSE, CAL.—Local reports state that the Board of Trustees of the College Park Sanitary District has let the contract for its sewer system to CHARLES WOHNER, San Jose, for $47,000. Thirteen miles of sewer is to be laid and the work to be completed in six months. Work will begin within a week.

SAN FRANCISCO, CAL.—Board Public Works has awarded the contract for building the Sixth St. sewer to FRANK G. O'KANE for $55,735.

HALIFAX, N. S.—This city has sold a bond issue of $207,000, proceeds of which are to be used in constructing sewers.

GARBAGE DISPOSAL.

The names of parties awarded contracts are printed in capital letters.

UTICA, N. Y.—CHARLES I. WILLIAMS was awarded a 1-year contract for street clearing on Sept. 18, at $32,781.

PHILADELPHIA, PA.—Readvertised bids were received on Sept. 18 for street cleaning contracts. The lowest were as follows: First District, H. A. Cleman, $80,000; Second, Edwin H. Vare, $49,999; Third, Edwin H. Vare, $89,999; Fourth, Thomas Parker & Co., $83,000; Fifth, Howard E. Ruch, $102,900; Sixth, John Loughlin, $50,000; Seventh, James Curran, $75,000; Eighth, Edwin H. Vare, $128,909; Ninth, David McMahon, $74,485; Tenth, David Peoples, $60,000; Eleventh, David Peoples, $49,890. A. Lincoln Acker is Dir. Dept. Public Works.

MIDDLETOWN, O.—Bids are asked until noon, Oct. 6 for sweeping and cleaning several streets for one year. N. G. Oglesby is Clk. Bd Public Service.

MOLINE, ILL.—It is reported that C. W. Smith, of Davenport, Ia., will install a garbage crematory for the city, to cost about $25,000.

GRAND RAPIDS, MICH.—Henry Wagner, Engr., of Cincinnati, O., has offered a proposition to Council to dispose of city garbage. A plant to cost $25,000 may be erected.

STOCKTON, CAL.—Plans and specifications of the new garbage plant to be erected south of this city have been acceptd and approved, and work will be commenced on the erection of the furnace at once.

STREETS AND ROADS.

The names of parties awarded contracts are printed in capital letters.

BOSTON, MASS.—Bids were received by Massachusetts Highway Commission, Pemberton Bldg., Boston, on Sept. 21 for sections of highway, and contracts awarded, as follows: Kingston, T. F. O'NEIL, Newburyport, $6,035; Groveland, LANE QUARRY CO., Hingham, $3,870; Palmer, JAS. E. WATKINS, Amesbury, $2,027; Wareham and Beverly, FRED E. ELLIS, Melrose, $4,634 and $3,657, respectively: Douglas, CHAS. E. HOME, Millbury, $3,903.

WHITE PLAINS, N. Y.—Bids were received by Board of Trustees for macadamizing, curbing, guttering and flagging South Broadway, as follows: Antonio Maglio, $7,312; E. L. Erbeck, $7,630; Wm. F. McCabe, $7,490.

NEW YORK, N. Y.—The following bids were received Sept. 19 by Louis F. Haffen, Pres. Boro. Bronx, for grading, curbing, paving with asphalt, etc., on portions of several streets; (2) East 144th St.; (3) White Plains Road; (4) Dawson St.; (5) College Ave.; (6) East 150th St.; (7) East 161st and other streets; (8) Grant Ave.; (10) Morris St.; Continental Asphalt Paving Co., 42 Broadway, (1) $8,295, (4) $13,654, (5) $2,390; Barber Asphalt Paving Co., 114 Liberty St., (1) $7,658, (3) $233,834, (4) $14,361, (5) $2,482; Interstate Paving Co., Utica, (3) $217,300, (4) $13,593, (5) $2,114; Hastings Paving Co., 25 Broad St., (3) $225,108, (4) $13,695, (5) $2,420; Asphalt Construction Co., 207 Broadway, (3) $255,620, (4) $15,651, (7) $11,884; Cunningham & Kearnes, 432 East 91st St., (6) $17,607, (7) $12,212, (8) $47,541; T. V. Smith Construction Co., 147 East 125th St., (6) $17,844, (7) $12,195; Matthew Baird Const. Co., 433 East 92d St., (7) $11,799; Uvalde Asphalt Paving Co., 1 Broadway, (7) $12,835, (8) $48,635; D. W. Moran, 563 Burnside Ave., (8) $49,360, (10) $18,689; McCabe & Co., Fordham, N. Y., (8) $[illegible]; A. G. Vermilye, (8) $62,237; C. W. Collins, Fordham, (8) $67,583; C. Cipolli & Co., Mt. Vernon, (10) $44,825; P. J. Duffy, 1321 St. and St. Anns Ave., (10) $49,490; Geo. I. Bailey, 1199 Fulton Ave., $54,121; Troy Public Works, Utica, (10) $55,856.

ALBANY, N. Y.—Mayor Gaus has approved ordinances authorizing the paving of Wilson Ave. and Partridge St. Walter Melins is Cy. Engr.

BROOKLYN, N. Y.—Bids are asked by Martin W. Littleton, Boro. Pres., until Oct. 11 for regulating and repaving with asphalt portions and laying concrete sidewalks over portions of several streets.

NIAGARA FALLS, N. Y.—Bids were opened Sept. 19 by Board Public Works for paving Linwood Ave., as follows: Henry P. Burgard & Co., Buffalo, $8,869; Barber Asphalt Paving Co., $9,519; Warren Bros. Paving Co., $10,198; German Rock Asphalt & Cement Co., $10,199.

ORANGE, N. J.—An ordinance to pave Main St. with vitrified brick has been presented to Council. F. T. Crane is Cy. Engr.

ENGLEWOOD, N. J.—An ordinance for laying out, grading and macadamizing of a street in the Third Ward has been adopted by Common Council. Robt. Jamieson, Cy. Clk.

JERSEY CITY, N. J.—Repaving of Central Ave., Jersey City Heights, on a concrete base from Ferry St. to Congress St., has been provided for by Board of Finance, which appropriated $19,122 for the purpose.

FORT HANCOCK, N. J.—Sealed proposals for constructing macadam roadways and concrete sidewalks here will be received until Oct. 16 by Abe S. Bickham, Q. M.

CHESWICK, PA.—The Borough of Cheswick will receive sealed proposals until Oct. 3 for widening and grading of Freeport Road; the approximate amount of earth excavation is 10,000 cu. yds. W. M. Straub, Boro. Secy.

HARRISBURG, PA.—Bids are asked by State Highway Department until Oct. 4 for construction of 11,542 ft. of road in Indiana and Westmoreland Counties.

HARRISBURG, PA.—Sealed proposals will be received by State Highway Department until Oct. 4 for constructing of 23,618 ft. of road in Bucks County. Jos. W. Hunter, State Highway Comr.

WILMINGTON, DEL.—We are informed that all bids received Sept. 19 by Levy Court of New Castle County for constructing Foulk Road were rejected, and it was decided to wait until next spring before advertising again. Williamson & McLaughlin, of Philadelphia, Pa., were lowest bidders, at $16,335. Francis A. Price, Highway Comr.

BALTIMORE, MD.—County Commissioners have awarded contracts to F. E. SNYDER & Co. for paving about a mile each of the Mount Carmel and the Philadelphia Roads, in the 12th and 14th Districts. Cost, $13,000.

BALTIMORE, MD.—City Council Highways Committee will ask the Board of Estimate for an appropriation of $400,000 for street paving.

MOUNDSVILLE, W. VA.—Bids are asked by Walter A. McGlumphy, Cy. Clk., until Oct. 18 for paving with vitrified brick a portion of Eighth St.

ALBANY, GA.—An ordinance has been passed by City Council providing for the paving of Washington St. J. W. Wilcox, of Macon, Ga., is Engr.

MEMPHIS, TENN.—City has let contract to the SOUTHERN BITULITHIC CO., of Nashville, for $50,000 worth of paving.

PINE BLUFF, TENN.—City Council has decided to pave Main St.

LOUISVILLE, KY.—The Board of Works has ordered the reconstruction of St. Catherine St. with asphalt.

COLUMBUS, O.—Bids are asked by Board Public Service until Oct. 4 for grading, curbing and paving portions of several streets. Chas. H. Frank, Secy.

LEBANON, O.—Sealed bids will be received until Oct. 2 by County Auditor for construction of the Van Camp Free Turnpike Road in Deerfield Township.

AKRON, O.—City Council has voted in favor of paving Orleans Ave. with brick. J. W. Payne is Cy. Engr.

CINCINNATI, O.—Bids are asked by Board Public Service until Oct. 18 for grading, setting granite curbs and paving with asphalt on Bauer Ave. Geo. F. Holmes, Clk.

CINCINNATI, O.—Bids are asked by Board Public Service until Oct. 4 for grading, curbing and paving with asphalt on College St.

SULLIVAN, IND.—The Town Board has passed resolutions providing for the paving of public square and parts of Washington and Jackson Sts.

VINCENNES, IND.—The contract for building gravel road in Washington Township has been let to BROCKSMITH & ASHLEY by the County Commissioners. The road is two miles long and the consideration is $69,080.

SHELBYVILLE, IND.—The City Clerk is asking for bids for a large amount of cement sidewalks.

BLUFFTON, IND.—City Council has let contract to the HOOSIER CONSTRUCTION CO., of Indianapolis, for paving of six squares of Cherry St. with asphalt, at $2.05 per sq. yd.

INDIANAPOLIS, IND.—The contract for construction of Pleasant Run Boulevard has been awarded to J. D. HOSS, for $24,995. The contract provides for a bitulithic roadway, 25 ft. wide, and cement sidewalk.

SOUTH BEND, IND.—A. J. Hammond, Cy. Engr., informs us that bids will be received by Board Public Works until 10 a. m., Oct. 3 for construction of 2,717 sq. yds. of brick pavement.

JACKSON, MICH.—Bids are asked by Board Public Works until 9 a. m., Oct. 2 for paving First St., Park Ave. and Elizabeth St. J. F. Harrison, Supt. Pub. Wks.

KANGLEY, ILL.—Bids will be received by Commissioners of Highways at the office town clerk in Kangley until 1 p. m., Oct. 3 for constructing a gravel road.

CHAMPAIGN, ILL.—Contract for paving Randolph St. with brick, bids opened Sept. 22, has been let to JOHN W. STIPES, Champaign, Ill., for $47,405. See Contract Prices for itemized bid.

PEORIA, ILL.—The Board Local Improvements has decided to pave Linn St. with brick.

STERLING, ILL.—Contract for 17,627 sq. yds. brick paving on West Fourth St., bids opened Sept. 19, has been let to CHAS. L. BESSLER, Cedar Rapids, Ia. See under Contract Prices.

GREEN BAY, WIS.—We are informed that the contract for paving 11th St. with granite top macadam has been awarded to J. K. DELANY, for $2,700. W. W. Reed, Cy. Engr.

IOWA CITY, IA.—We are informed that F. L. CROWLEY & CO., of Iowa City, was awarded contract, at $20,585, for constructing brick pavement, bids which were opened Sept. 22. Chas. S. Magowan, Cy. Engr.

FORT DES MOINES, IA.—Bids are asked by Capt. L. Hardeman, C. Q. M., 11th Cav., until 2 p. m., Oct. 4 for macadam road at post cemetery.

LE MARS, IA.—An order has been issued compelling the laying of cement sidewalks.

ATLANTIC, IA.—Bids are asked by Jno. J. Rapp, Cy. Clk., until 8 p. m., Oct. 3 for constructing sidewalks on sundry streets.

DES MOINES, IA.—Fourth St. will be paved with asphalt. John W. Budd is Cy. Engr.

ST. PAUL, MINN.—The Committee on Streets of Board of Aldermen has reported favorably upon the ordinance authorizing a bond issue of $75,000 for the improvement and enlarging of parks and parkways. J. A. Wheelock is Pres. Park Board.

ST. PAUL, MINN.—JAS. FORRESTAL & CO. were awarded contract for paving Fillmore Ave., between Robert and Eva Sts., with sandstone, at $8,486.

IOLA, KAN.—Geo. Myers, Cy. Engr., writes us that bids will be received until Oct. 5 for constructing about 11,160 sq. yds. of brick pavement on South Washington Ave.

WICHITA, KAN.—Sealed proposals will be received by R. N. Dorr, Cy. Clk., until Oct. 2 for constructing of permanent sidewalks on Pattie Ave. H. J. Harding, Cy. Engr.

IOLA, KAN.—We are informed that the contract for 13,260 sq. yds. brick paving has been awarded to F. P. DELLONE & CO., at $1.31 per sq. yd. About an equal amount of brick paving will be let within three weeks. Geo. Myers, Cy. Engr.

SEDALIA, MO.—Resolutions declaring it necessary to curb both sides of Washington and Massachusetts Aves., and pave roadway of Sixth St. have been passed by City Council. C. E. Baker, Cy. Clk.

HELENA, ARK.—We are informed that the contract for paving Cherry St. with brick has been let to the Miller Paving Co., of Memphis, Tenn., for $22,562. Bids were opened July 1, as advertside in Engineering News. Everything postponed on account of quarantine. Work will commence about Oct. 5. Francis H. Wright, Cy. Engr.

ARGENTA, ARK.—Bids are asked by Robt. R. Stevens, C. Q. M., Fort Logan H. Roots, until Oct. 18 for grading target range at Ft. Logan H. Roots.

GALVESTON, TEX.—Several streets of this city are to be paved. Cost, about $6,000. C. G. Wells is Cy. Engr.

GALVESTON, TEX.—W. I. Heffron was lowest bidder for paving of Market St. and 25th St., at $5,926 and $7,250 respectively.

SOUTH McALESTER, IND. T.—Bids will be received by H. F. Schreiner, Chn. Imp. Com., until Oct. 2 for paving Choctaw Ave. with vitrified brick on concrete base, approximately 15,000 sq. yds. M. J. Smith, Cy. Engr.; John B. Hawley, Consult. Engr., Fort Worth, Tex.

REPUBLIC, WASH.—Sealed bids will be received by Thos. T. Barrett, County Clk., until Oct. 4 for construction of a road.

SEATTLE, WASH.—Bids were received Sept. 16 by Board Public Works for grading and concrete sidewalking on East Fifth St. and other streets, the contract, according to reports, being awarded to D. DOW & CO., Seattle, at $19,098. Seen under Contract Prices.

NORTH YAKIMA, WASH.—Bids are asked by County Commissioners until 10 a. m., Oct. 3 for grading and graveling of Moxee Road. W. B. Newcomb, County Audr.

LOS ANGELES, CAL.—Petitions are being circulated for the paving of Flower St., and it is claimed that nearly enough frontage already has been secured to warrant the City Council in ordering the work. Harry F. Stafford is Cy. Engr.

BOISE, IDAHO.—The contract for construction of Atlantic Road was let to CHAS. STOREY, of Boise, for $23,400.

MANUFACTURING PLANTS.

The names of parties awarded contracts are printed in capital letters.

NEW YORK, N. Y.—Gillespie & Carrell, Archs., 1123 Broadway, have plans in progress for factory to be located at 32-4 West 100th St., for Schinasi Bros., 311 West 120th St. Brick and stone, 5 stories, 50 × 100 ft. Heating and ventilating system, gas and electric lighting, generators, mason work, elevator, etc., will all be figured separately soon.

MINETTO, N. Y.—The Minetto Shade Cloth Co. has plans completed and propose to erect a concrete building, 34 × 250 ft.

NEW YORK, N. Y.—P. J. BRENNAN, 1931 Broadway, has been awarded contract for factory to be erected at 286-88 Spring St., for Chas. Cory & Sons, 278 Division St. W. H. Whittal and R. P. Bolton, 35 Nassau St., are Archs. Brick and stone, 6 stories, 30 × 80 ft. Cost, $100,000.

NEWARK, N. J.—E. M. WALDRON & CO., Newark, have been awarded general contract for erecting factory for Cawley, Clark & Co., at 278 Passaic St., Newark. G. W. Campbell, 171 Broad St., Newark, is Arch. Color shop, 3 stories, 70 × 200 ft.; dyeing room, 1 story, 20 × 206 ft.; chrome building, 1 story, 75 × 150 ft.; power house, 1 story, 40 × 60 ft.; all of brick.

ELGIN, PA.—We are informed that the Elgin Chair Co., A. J. Lyons, Secy., will rebuild its factory destroyed by fire last summer. Chair manufacturing machinery, boilers and engine are wanted.

READING, PA.—L. H. FOCHT, Baer Bldg., has been awarded contract for a paper mill for the Reading Paper Co.

PHILADELPHIA, PA.—Smith & Robinson, 605 Provident Bldg., Philadelphia, Pa., have been retained as engineers for three steam heating contracts for Chas. C. I. Baldi Bros. & Co., one for a large three-story cigar factory, one for a five-story factory and one for an undertaking establishment and stable.

BALTIMORE, MD.—The Kingan Packing Association, 355 North St., will erect an engine-room at 354-8 North Holliday St., to cost about $5,000.

M. Pimes & Co., manufacturers of furniture, 113 North Gay St., have commissioned Henry J. Tinley, Arch., Hoffman Bldg., to prepare plans and specifications for a five-story factory building to be erected on North Front St.

Frederick Bauernschmidt proprietor American Brewery, 1120 Hillen St., has awarded contract to CHESAPEAKE IRON WORKS, Bayard and Severn Sts., for construction of bottling plant at Monument St. Brick and steel, 2 stories, 65 × 122 ft.

F. Bergner & Co., 308 West Pratt St., manufacturers of novelties, have commissioned J. E. Sperry, Arch., Calvert Bldg., to prepare plans and specifications for factory building to be erected at Pratt St. and Arlington Ave. Brick, 4 or 5 stories, 171 × 90 ft.

SALISBURY, MD.—J. H. Tomlinson & Co. will erect a 25-ton ice plant. About $20,000 will be invested.

BALTIMORE, MD.—The National Envelope & Papeterie Mfg. Co., J. L. Bowles, Mgr., Equitable Bldg., has had plans prepared by Geo. Clothier, Jr., Arch., Lobe Bldg., 15 South Gay St., to be located in South Baltimore. The power house, which will be 20 × 50 ft., will be equipped with 50-KW. generator and 85-HP. engine, which will furnish light and heat for the entire plant.

WASHINGTON, D. C.—The contract for erecting addition to National Capital Brewery has been let to RICHARDSON & BURGESS, Colorado Bldg.

LYNCHBURG, VA.—The Morrison-Miles Lumber Co. has purchased a tract of timber land said to contain 15,000,000 ft. of lumber. Modern saw mills will be erected. No machinery has been purchased.

LYNCHBURG, VA.—The plant of the Brunning Extract Co. was destroyed by fire. Loss, about $25,000.

DURHAM, N. C.—C. A. [illegible] and associates contemplate establishing [illegible] brick works. Address P. O. Box 591.

ROCK HILL, S. C.—S. C. [illegible]mpbell will erect an ice factory here.

SPARTANBURG, S. C.—[illegible] Cleveland and others are organizing [illegible] ,000 company to erect a cotton waste [illegible]

ATLANTA, GA.—F. C. R[illegible] & Co. want prices on machinery for [illegible] 50 and a 75-ton ice factory. The plant [illegible] be run entirely by electricity.

POULAN, GA.—It is proposed to establish an ice-making plant here. [illegible] J. F. Wilson can give information.

SHEFFIELD, ALA.—The [illegible] Furniture Mfg. Co. will improve and enlarge its plant at a cost of $40,000.

SARDIS, MISS.—The Sardis [illegible]ber, Coal & Ice Co. is in the market for [illegible] outfit of machinery for ice factory.

RULEVILLE, MISS.—The R[illegible] Light, Ice & Coal Co., recently incorporated, will erect a building 66 × 160 ft. [illegible] which to manufacture ice, etc. Paul F[illegible], Engr.; J. Thompson, Arch.

MEMPHIS, TENN.—The Bro[illegible] Mantel & Lumber Mfg. Co. has been organized with 25,000 capital stock to manufacture wood mantels, etc. B. Braughton is [illegible]

NASHVILLE, TENN. — Plans have been completed for new $200,000 chemical laboratory to be erected at Nashville for Vanderbilt University. Snelling & Potter, Archs., 1170 Broadway, New York City. Brick and stone, 4 stories, 100 × 150 ft. Owner will build and all contracts will be awarded locally.

CHATTANOOGA, TENN.—J. W. Kelly & Co. will double the capacity of [illegible] plant. An addition to the fermenting room will be erected at once. Cost, about $5,000.

CRAWFORDSVILLE, IND.—The Monarch Metal Fence Co., capital stock $[illegible], will build a factory here to manufacture a combination iron and cement post. Geo. B. Luekett is Pres.

PAULS VALLEY, IND. T.—R. H. Bobler will establish brick and tile works here.

HARTFORD CITY, IND.—The William Lumber Co.'s planing mill, recently destroyed by fire, will be rebuilt. Bids will soon be in order.

BRONSON, TEX.—The entire plant of the Kirby Lumber Co. was destroyed by fire. Loss, $100,000.

LIVINGSTON, TEX.—The saw mill and planer of the Lamon Lumber Co., which were recently destroyed by fire, will probably be rebuilt.

LAREDO, TEX.—The Consumers' Ice Co. will erect an 800-ton ice storage house this winter.

BEAUMONT, TEX.—A stove foundry will probably be located here. Secretary Chamber of Commerce can inform.

GONZALES, TEX.—The Gonzales Water-Works Co., T. H. Spooner, Mgr., contemplates the erection of an ice plant with a daily capacity of 15 tons.

CONROE, TEX.—The Southern Pine & Cypress Co., of Houston, will erect a large planing mill here.

BEAUMONT, TEX.—A company is being organized here with $50,000 capital stock for the erection of a stove foundry. H. G. Spaulding, Secy., Chamber of Commerce, can give information.

DEL RIO, TEX.—A $200,000 cotton mill is to be erected here by Fall River, Mass., capitalists. The Mayor can inform.

PORT ARTHUR, TEX.—The Northern Land & Lumber Co., of Port Arthur, is in the market for new machinery.

BELTON, TEX.—The Belton Cotton Mfg. Co. will double the capacity of its cotton mill.

CHILOCCO, OKLA.—Bids are asked by C. F. Larabee, Act. Comr., Washington, D. C., until 2 p. m., Oct. 17 for constructing complete an ice plant, capable of making two tons of ice in 12 hours, and furnishing from three to five tons of refrigeration. S. M. McCowan, Supt.

KINGFISHER, OKLA.—The erection of a creamery is contemplated. J. E. Ruth can inform.

COLORADO SPRINGS, COLO.—Fountain Valley Land & Irrigation Co., W. C. Johnston, Pres., O. C. Black, 116 East Pikes' Peak Ave., Agent, Colorado Springs, is said to have decided to erect a sugar beet factory.

JARILLA, N. MEX.—The Southwest Smelting & Refining Co. has awarded the contract for construction of a smelting plant at Jarilla to COMMONWEALTH CONSTRUCTION CO., of Denver, Colo. The work included in this contract involves the expenditure of nearly $200,000. Water will be brought from the Sacramento mountains through a 6-in. steel pipe line 25 miles long. Two storage reservoirs will be constructed at the upper end of the line and a distributing reservoir at the lower end. The smelter will have a daily capacity of 4[illegible] tons of ore and the copper matte produced will be shipped to a refinery for the present. Later a refinery may be built at Jarilla. The smelter buildings will be constructed of steel and the ore and fuel bins of reinforced concrete. The power house will contain direct connected generating sets from which a three phase current will be distributed to the motors and lights around the plant. The officers of the Southwest Smelting & Refining Co. are Geo. J. Greene, Pres.; Robt. G. M[illegible], Vice-Pres. and Gen. Mgr.; D. D. Long, Secy.; Thomas L. Wilkinson is Asst. Gen. Mgr. and Ch. Engr. Its principal offices are in St. Joseph, Mo.

SHAWINIGAN FALLS, QUE.—The Northern Aluminum Co. will enlarge its works here at a cost of $250,000.

GUELPH, ONT.—The Robert Stewart Lumber Co. will soon erect an addition to its planing mill, and is in the market for $10,000 worth of machinery.

BRANTFORD, ONT.—The Brant Milling Co. will rebuild its mill recently destroyed by fire, and install new machinery.

STRATFORD, ONT.—The Dominion Thread Mills will shortly commence the erection of a large factory here.

STURGEON FALLS, ONT.—The Imperial Paper Mills Co. is about to spend $20,000 on the enlargement of its mills.

WINNIPEG, MAN.—Hooper & Walker, Archs., of Winnipeg, are preparing plans for four-story factory for E. H. Briggs & Co.

MISCELLANEOUS CONTRACTS.

The names of parties awarded contracts are printed in capital letters.

PIER.—S[illegible] Harbor, N. Y.—This village, Wm. R. R[illegible]ann, Pres., is to build a pier on the east shore at a cost of $5,000.

WHARF EXTENSION.—San Francisco, Cal.—Harbor Commissioners, on Sept. 15, awarded contract for extension of Greenwich St. wharf to ROBERT WAKEFIELD, for $23,877.

DITCH.—Marshalltown, Ia.—Bids are asked by W. E. McLeland, County Audr., until 10 a. m., Oct. 10, for construction of 4¾ miles of open ditch, 36,000 cu. yds. excavation.

DRAINAGE CANAL.—Rich Hill, Mo.—A. H. Bell, Bloomington, Ill., is making survey of the route of the proposed drainage canal along the Marais Des Cygnes River.

DRAINAGE WORK.—Virginia, Ill.—Lost Creek Drainage District Commissioners awarded the three-mile tiling contract in West Cass to DAILY & NUNES, Jacksonville, Ill., at $7,124.

BREAKWATER.—Indian Head, P. E. I.—Bids are asked by Fred Gelinas, Secy. Dept. Pub. Wks., Ottawa, Ont., until Oct. 14 for construction of breakwater at Indian Head, Summerside Harbor, P. E. I.

ENGINES.—Washington, D. C.—Isthmian Canal Commission has awarded contract for 20 large Mogul freight engines for road service and 100 switch engines to the AMERICAN LOCOMOTIVE CO., of New York.

MINING TUNNEL.—Anaconda, Mont.—Cleveland & Montana Mining Co. is stated to have let contract to E. J. TRERISE, WILLIAM HASTIE and W. H. DUNSTAN for driving a 700 ft. tunnel.

DAM.—Austin, Tex.—It is reported that an engineer representing the Stone-Webster Syndicate, of Boston, Mass., is making investigation with a view to rebuilding the dam across the Colorado River at Austin, Tex.

BOX CULVERT.—Lisbon, O.—Bids are asked by County Commissioners, Eden Reeder, Comr., until noon Oct. 9, for labor and material for construction of stone box culvert with wing walls, two miles south of Salem.

DITCH WORK.—Pocahontas, Ia.—Contract for about 30,300 ft. of 8-in. to 16-in. tile and about 4,300 cu. yds. open work will be let at this place Oct. 13. G. W. Smeltzer, County Audr.

DIKE WORK.—New York, N. Y.—Bids are asked until noon Oct. 16 for constructing and repairing dikes in Hudson River, N. Y. Col. W. R. Livermore, U. S. Engrs. (Advertised, Engineering News.)

DREDGING.—Charleston, S. C.—Bids are asked until noon Oct. 14 for dredging canal between Charleston Harbor and Bulls Bay, S. C. Capt. G. P. Howell, U. S. Engrs. (Advertised, Engineering News.)

DREDGING.—Washington, D. C.—Bids are asked until noon Oct. 21 for dredging in Breton Bay, Md., Occoquan and Carters Creeks, and Mattaponi and Pamunkey Rivers Va. Lt.-Col. R. L. Hoxie, U. S. Engrs. (Advertised. Engineering News.)

DITCH WORK.—Ovid, Mich.—County Commissioners are stated to have awarded contract for construction of Maple River drain, requiring 22 miles of dredging, to CANAL CONSTRUCTION CO., Chicago, Ill., for $46,383.

DREDGING.—New York, N. Y.—Bids are asked until noon Oct. 12 for dredging in Port Jefferson Harbor, Huntington Harbor, Flushing Bay and Canarsie Bay, N. Y. Col. W. R. Livermore, U. S. Engrs. (Advertised, Engineering News.)

LOCK REPAIR.—Columbus, O.—Bids are reported asked by State Board Public Works, W. H. McClintock, Secy., until Oct. 10 for repairing canal locks at Dresden. Est. cost is $20,000. C. E. Perkins, Ch. Engr. State Bd. Pub. Wks.

PARK ENTRANCE.—Baltimore, Md.—Following bids were received last week by the Board of Awards for reconstruction of the Fulton Ave. entrance to Druid Hill Park: Steel Concrete Construction Co., $9,170; Chesapeake Iron Works, $9,500.

DOCK.—Escanaba, Mich.—Chicago, Milwaukee & St. Paul Ry., according to reports, is to construct a new dock at this port at a cost of about $800,000. Contract for dock timbers is stated to have been let to I. STEPHENSON CO.

ENGINEERING INSTRUMENTS, ETC.—Washington, D. C.—Bids are asked by D. W. Ross, General Purchasing Officer, Isthmian Canal Commission, until 10.30 a. m., Oct. 11, for furnishing engineering instruments and supplies, draftsmen's supplies, tents, etc.

TRACK MATERIAL.—Washington, D. C.—Bids are asked by D. W. Ross, General Purchasing Officer, Isthmian Canal Commission, until 10.30 a. m., Sept. 29, for furnishing track bolts, spikes, braces, tie plate, frogs, switches with stands, and washers.

RIP RAP SEA WALL.—New York, N. Y.—Bids are asked until noon Oct. 27 for furnishing riprap and enlarging seawall at south end of U. S. lands at Sandy Hook, N. J. Lt. Col. W. L. Marshall, U. S., Engrs. (Advertised, Engineering News.)

HARBORS.—Long Beach, Cal.—Los Angeles Dock & Terminal Co., which proposes to construct harbors at this place, has organized with Dana Burks, Long Beach, as Pres., and W. M. Campbell, Redlands, Cal., Secy. The company has capital stock of $1,500,000, of which $25,000 is paid in. Engineers are engaged on preliminary work.

READERS' WANTS

If any one is in the market for any engineering or contracting supplies, the first thing to do is to refer to our advertising pages, but if the buyer cannot find what he wants we particularly ask that he notify us at once and we will inform the proper parties without cost to the inquirer. A copy of ENGINEERING NEWS BUYERS' GUIDE will be mailed to any one upon application. This paper will always appreciate any news notes regarding public, or important private work, and will be pleased to receive detailed items. Requests to hold names will be complied with in every case. Do not fail to write our advertisers or us.

CONCRETE BLOCK MACHINES.—Newark, N. J.—N. J. Singers, 205 Ferry St., desires information of the above.

I BEAMS.—Philadelphia, N. Y.—A. F. Nims writes that he is in the market for about 60 tons of standard 12-in. and 15-in. I beams.

SUGAR AND PLANTATION MACHINERY.—Chicago, Ill.—W. J. Lowitz, 3953 Michigan Ave., writes that he is in the market for the above.

ROPE MACHINERY.—Hancock, Mass.—E. P. Osgood writes us that he desires to hear from manufacturers of machines for making hemp rope.

STREET CLEANING MACHINERY.—Columbus, Ind.—George Vorwald, Cy. Clk., is desirous of hearing from manufacturers of the above machinery.

¼-HP. SPRING.—Lahore, India.—Alex. Atkinson, Engr. and Contractor, would like to hear from firms manufacturing springs of ¼-HP. which would last 10 hours, the same as used in working musical organs.

HORSE POWER MACHINES.—The Municipal Engineering & Contracting Co., Railway Exchange, Chicago, wants prices on gears or machines worked by horses, such as are used for driving farm machinery, hoists, etc.

MACHINERY.—New York.—The Marine Mfg. & Supply Co., 158 South St., writes us that they are in the market for the necessary machinery for making steering wheels, windlasses, hoisting winches, crabs, derrick fittings, etc.

LOCOMOTIVES, CARS, RAILS, ETC.—San Juan, Bantista, Mexico.—W. H. Leonard, Estado Tabasco, states that he is in the market for two small locomotives for 35 lb. rails, no grade to exceed 1%, passenger coaches, freight cars, rails, hand cars, etc.

COUPLING.—Louisa, Ky.—The Holberbach & May Contract Co., Lock No. 1, Tug Fork, Big Sandy River, writes us for information regarding firms handling sleeve or coupling with standard thread for use on rods through concrete holding the forms. Pipe coupling has been found too light for the work.

CONVEYORS. — Montreal, Que. — Harbor Commissioners have entered into a contract with J. S. Metcalf Co., 624 The Temple, Chicago, Ill., for the preparation of plans for the system of conveyors for a new grain elevator and the supervision of construction work.

CABLES.—Lynchburg, Va.—Bids are asked by Council Committee on Electricity, until Oct. 9 for manufacture and delivery of underground alloy-covered cables for the electric signal circuits of the fire department and police patrol systems. W. L. Kent, Cy. Electrician.

FILLING AND GRADING.—New Orleans, La.—Bids are asked by Bureau Yards and Docks, Washington, D. C., until 11 a. m., Oct. 14, for filling and grading at New Orleans Naval Station; $35,000 available. Specifications may be seen at office of Engineering News, 220 Broadway, New York.

LADDER TRUCKS, HOSE, ETC.—New York, N. Y.—Bids are asked by Nicholas J. Hayes, Fire Comr., until Oct. 4 for furnishing and delivering one 85 ft. aerial hook and ladder truck and one 75 ft. hook and ladder truck. Bids are also asked for furnishing and delivering 6,000 ft. 3-in. rubber fire hose and 6,000 ft. 3-in. cotton rubber lined fire hose.

AERIAL FERRY.—Norfolk, Va.—Norfolk Viaduct Corporation, which proposes to build an aerial ferry over the eastern branch of the Elizabeth between Norfolk and Berkley, has filed new plans at U. S. Engineers' Office. The plans provide that there shall be 600 ft. between the piers of the structure, and that there shall be a clear height of 175 ft. for the span.

CONDUITS, HOSE WAGONS.—New York, N. Y.—Bids are asked until 10.30 a. m., Oct. 2, for furnishing and placing conduits of the Fire Department telegraph and alarm system underground in Borough of Brooklyn. Bids will be received on same date for eight third-size hose wagons (25% more or less) for the Borough of Queens. Thomas W. Churchill, Deputy and Acting Fire Comr.

AIR HOIST, MOTOR, ETC.—Washington, D. C.—Bids are asked by Bureau Supplies and Accounts, until Oct. 17, for furnishing a quantity of naval supplies, among which are the following: Schedule 140, air hoists, sheaves, crane rails; schedule 141, conduit, cable, etc.; schedule 142, motor, motor drive outfit, electric traveling hoist, pipe, windlasses, etc. H. T. B. Harris, Paym. Gen., U. S. N.

SUBWAY, IRON, ETC.—New York, N. Y.—Bids are asked by Francis J. Lantry, Comr. Correction, 148 East 20th St., until 11 a. m., Oct. 3, for furnishing labor and materials required for proposed new brick subway and installation of new main steam and return lines and connections to the present heating systems of the various pavilions on Hart's Island. Bids are also asked until same date for furnishing and delivering hardware, iron, lumber and miscellaneous articles.

CEMENT, RAILS, PIPE, ETC.—Washington, D. C.—Bids are asked by Bureau Supplies and Accounts, Washington, D. C., until Oct. 17 for furnishing at naval station, Guantanamo Bay, Cuba, a quantity of naval supplies, as follows: Schedule 145, Portland cement, broken stone, sand, oakum, hardware and tools, plain and creosoted yellow pine, pig lead, rails and switches, bar steel, cast iron pipe, specials and reservoir fittings, dump and flat cars.

CABLE, MOTORS, CEMENT, ETC.—Washington, D. C.—Bids are asked by Bureau Supplies and Accounts until Oct. 10 for furnishing a quantity of naval supplies, among which are the following: Schedule 147, dynamotors, insulators, testing sets, etc.; schedule 148, armored cable, milling machine, brass pipe, terra cotta sewer pipe, etc.; schedule 149, motors, conduit, etc.; schedule 151, Portland cement, fire clay, hydraulic jacks, etc. H. T. B. Harris, Paym. Gen., U. S. N.

DRAINAGE DITCH.—Council Bluffs, Ia.—We are advised that contracts for constructing drainage ditches for Harrison and Pottawattamie Counties, bids opened Sept. 19, have been awarded as follows: POLLAND, GOFF & CO., Champaign, Ill.; Section 2, 561,673 cu. yds., at 7½ cts. per cu. yd.; WESTERN DREDGING CO., Omaha, Neb., Section 1, 647,688 cu. yds., at 7¼ cts.; Section 3, 217,507 cu. yds., at 9¾ cts.; Section 4, 106,976 cu. yds., at 10¾ cts. Seth Dean, Missouri Valley, Ia., is Construction Engr.

MEXICO.

The names of parties awarded contracts are printed in capital letters.

ELECTRIC LINE.—Santa Maria. — The Isaac Springer Investment Co., Los Angeles, Cal., has purchased the Santa Maria Light & Power Co. and contemplate building an electric line to Guadalupe.

ELECTRIC TRAMWAY.—Chihuahua.—The Cigarrero Mining Co., operating in Chihuahua, proposes to build an electric tramway from their mines to Baca station on the Parral branch of the Mexican Central.

JUTE MACHINERY.—City of Mexico.—The Compañia Industrial Aurora, City of Mexico, has decided to increase its capital stock from $500,000 to $1,000,000. The company manufactures jute, and will order much new machinery. The present output of jute products of 50,000 tons annually will be doubled.

PORT WORKS.—San Benito.—The Mexican Government has awarded the contract for the port works at San Benito at the Guatemalan frontier, to THE MONTEREY IRON & STEEL CO. The contract will amount to about $450,000, and three years are allowed for the completion of the work.

ELECTRIC PLANT.—Zacatecas.—The Compañia del Alumbrado Electrico del Comercio de Zacatecas has been organized for the purpose of constructing and operating a large electric light and power plant in the city of Zacatecas. The company has a capital stock of $100,000 and is composed of local business men.

POWER PLANT.—Xicotlacotla, Guerrero.—Andres Lefebre is having the surveys made for a large electric power plant which he will establish at Xicotlacotla, on the Amacuzac River. A waterfall on that stream will be utilized for providing the power. The plant must be finished within four years. Transmission lines will be built to towns of Guerrero and the state of Morelos.

HYDRO-ELECTRIC PLANT.—San Dimas, Durango.—Colonel Daniel M. Burns, San Francisco, Cal., owner of the Candelaria mines, in this district, will erect a large hydro-electric plant to supply electric power for the operation of his mines and other mines and reduction plants in the San Dimas district. The power plant will be located on a mountain stream and a waterfall will be utilized to provide the initial power.

ELECTRIC RAILWAY.—Pachuca, Hidalgo.—It is announced that the Pachuca & Real del Monte railway system which extends to all parts of the city of Pachuca and to the mines of this district is to be converted into electric traction and otherwise improved. Engineer B. M. de Arozarena, the owner of the system, is now in New York arranging the details of the transaction. It is said that American capitalists will be associated with him in the ownership.

RAILWAY.—Guaymas.—The contract for furnishing the rails for the railway between this place and Guadalajara, a concession for which was granted a short time ago to J. A. Naugle, Asst. Gen. Mgr., Sonora Ry., Guaymas, in behalf of the Southern Pacific, is said to have been let to HENRY LUND & CO., San Francisco, Cal., who have already placed a contract for 50,000 tons of rails with the Krupps, of Germany. Engineers are in the field selecting the final route.

WATER POWER.—Vera Cruz.—Mexican National Sugar Refining Co. has secured concession for the use of the waters of the Atoyac River, in the state of Vera Cruz, for motive power. The company is authorized to construct the necessary hydraulic works to utilize 7,000 liters of water per second, from the above river, which is situated in the canton of Cordoba. Surveys must be commenced within six months, and plans submitted within one year. Construction must be commenced within two years and completed within seven years.

FOREIGN CONTRACTS.

The names of parties awarded contracts are printed in capital letters.

WATER-WORKS.—Belgium.—Bids will be opened Oct. 9 for the following work: Extension of the water conduit of Clavier-Terwagne-Seng to the communes of Warzée, Bois-Borsu, Les Avins and Bende-Jenneret (Luxembourg), at an estimated cost, $43,000; laying of a water system for the communes of Pailhe Vyle-Tharoul, Modave, Linchet, Vierset-Barse, and Havelange (Namur), at an est. cost of $68,500. Particulars may be obtained from A. Halleux, C. E., 74 Rue Fabry, Liége.

ELECTRIC TRAMWAY.—Peru. — Lower Amazonas Provincial Council has granted to Don Ezequiel Burga Cisneros a concession for the construction of an electric tramway and the installation of an electric lighting system in Iquitos.

POWER PLANT.—Spain.—Don Antonio Molina y Galindo has been authorized to appropriate from the river Sor 3,000 liters of water per second for the production of electric power. The appropriation may be increased to 10,000 liters per second at certain periods of the year.

RAILWAY.—Bulgaria.—The contracts for construction of a line of railway from Tirnovo-Trevna-Barouchtitza (about 23 miles); and a line from Radomir to Kustendil and the Turkish frontier (about 340 miles), have been obtained by Bulgarian firms, the tender for the first line having amounted to about $2,928,000, and the tender for the second to about $2,475,000.

WATER-WORKS, DRAINAGE.—Uruguay.—Advices from Montevideo state that Mormels, Kratzerstein & Co. have made an offer to the Uruguayan Government, through the Minister of Public Works, to provide everything necessary to enable the government to effect expropriation of the Montevideo water-works and to modify considerably the present water service, amplifying and constructing so as to expand the works for water supply and drainage. The company offers to spend $8,000,000, $5,000,000 for water service and $3,000,000 for drainage, and to attend to the obligations the State would contract.

JETTIES, DAM, ETC.—Nicaragua.—Capt. J. Francis Le Baron, Consult. Engr. for the United States & Nicaragua Co., is to make a survey of the bar and the river Prinzapolka for its entire length, and will design plans for increasing the depth of water in the bar by means of jetties and for improving the navigation for the entire river. Surveys, plans and estimates are to be made for the construction of a dam across the upper part of this river and for hydraulic electric power station of 2,000 HP. capacity, to be used for running the mining and milling machinery and mine electric railway of the La Luz & Los Angeles gold mines. An examination and report will be made on the matter of deepening the water at the mouth of the River Dulce, Guatemala, by means of jetties. Large coal deposits have been discovered on this river, and it is with a view of working these that the improvement of the river is desired. Guatemala parties are interested in this project. An examination and report is also to be made on the proposed harbor in British Honduras, which the Imperial Government proposes to build at terminus of the British-Honduras Guatemala Ry., money for which has already been appropriated by the English Government. Mr. Le Baron and party sailed Sept. 20 from Mobile, Ala., and his address for the present is Bluefields, Nicaragua, C. A., care Adolph Diaz, La Luz & Los Angeles Mines.

PUBLIC WORKS.—Europe.—Richard Guenther, U. S. Consul General at Frankfort, Germany, has collected from German sources the following information concerning proposed expenditures for private and public work in Europe.

Tramways, Sewers, Etc.—Austria.—An electric tramway to cost $105,000 is to be built at Goerz.—International competition has been invited by the municipality of Karlovac (Croatia) for the projected sewerage and water-works of that city.—The city of Trient contemplates the construction of works on the Sarca River for the purpose of creating electric energy.—The electric plant of Friedland, Bohemia, is to be enlarged at an expense of $86,000.—The town of Kapfenberg (Steyermark) has voted $63,000 for the installation of electric lighting.—In Szekesfehernar and in Erski (Hungary) sugar factories are to be erected.

Harbor Works.—Belgium.—The cost of the new harbor works at Antwerp is estimated at $38,600,000. The State will bear $20,200,000 of the expense.—The Ministry of Public Works will expend $130,000 for harbor improvements at Blankenberghe.

Water-Works.—Bulgaria.—New water-works will be constructed at Burgas to cost $77,000.

Hospital, Tramways, Etc.—Germany.—The city of Essen projects building a new hospital to contain 619 beds and to cost $976,000.—The city of Bonn has issued $1,048,000 bonds for building electric tramways.—The town of Wiesloch has been authorized to raise $114,000 for public works.—The town of Neu-Isenburg will expend $119,000 on public works.—At Reichelsheim, Grand Duchy of Hesse, an electric central power station is to be erected.—The "Harpen Bergbau Co.," near Essen, will build 80 coke ovens and an ammonia factory.

Railroad.—Italy.—The chamber of commerce in Genoa has decided to have another railroad line built from that city to Milan, and will grant a subvention of $200,000 for that purpose.

Docks, Sheds, Etc.—Portugal.—Harbor improvements, consisting of docks, sheds, breakwaters, etc., are projected for Lisbon at an est. cost of $1,080,000.

Tramway, Automobiles.—Spain.—The Sociedad Anonima Iranvias de Malaga projects the construction of a new tramway line in Malaga.—The Compania Madrilena Electrica in Madrid has received a concession to construct an electric tramway from Barquillo to Olivide.—The Ministro de Gobernacion has been authorized to purchase automobiles for transporting the mail matter in Madrid. This modus will eventually be employed in other large cities.

Public Improvements.—Sweden.—The government has authorized the city of Stockholm to issue a loan of $13,400,000 for purposes of public improvements.

Depot.—Switzerland.—A new freight and locomotive depot to cost $2,293,000 is to be erected at Berne.

Harbor Works.—Tripoli.—A syndicate has been formed at Rome, Italy, to build extensive harbor works in Tripoli.

TRAMWAYS, CANAL, ETC.—Argentina.—A correspondent in Buenos Aires sends us the following information concerning public and private improvements in this country.

Electric Tramway.—Buenos Aires. — The Mayor has reported favorably on the request of the Buenos Aires Electric Tramway Co. to be allowed to construct a branch line to Palermo.

Ship Canal.—Buenos Aires.—Senor Eduardo Madero of this city, has been in conference with the Minister of Public Works in connection with the scheme for a ship canal for Buenos Aires to Rosario furnishing him with information concerning both the engineering and financial aspects of the scheme. The work was calculated to cost $20,000,000, which sum would be payable after a long term, and under favorable conditions.

Electric Tramway. — Buenos Aires. — The Buenos Aires Municipality has granted a concession to Varela, Cuneo & Brothers, of Buenos Aires, for the construction and working of an electric tramway for a period of 60 years. This line is to join the one for which they hold the concession from the confines of this municipality to the Tigre. This new line will be in superposition with a large number of existing lines.

Railway.—Buenos Aires.—The government has definitely approved the cession by Colson, Brookhouse & Pyne, of Buenos Aires, to the "Credito Ferro Carrielero Argentino" Co. of all the rights and interests granted to the former in terms of the contract made with the Executive for the construction of the San Cristobal & Santa Fe Railway, as well as the temporary cession of the same rights and interests, by the company mentioned, to Baring Bros. & Co., Ltd., of London, it being understood that this approval in now way modifies the terms of the contract made with Colson, Brookhouse & Pyne, with respect to the obligations contracted by that firm, now withdraws the contract in question from the jurisdiction of the courts of the country, by whose laws its execution must be judged.

Electric Tramway.—Buenos Aires. — The Mayor has approved the plans presented by Varela, Cuneo & Co., of Buenos Aires, for the construction of an electric tramway from the confines of the municipality at Nunez to Retiro station and the Mercado Provecdor. The concession is for 60 years. This line will join up the lines held by the above firm from Nunez to the Tigre.

Railway.—Buenos Aires.—The Senate has approved the bill granting a concession to Ignacio Oyuela & Co., of this city for the construction of a railway line from Jumin to Lincoln.

Electric Railway.—Buenos Aires.—William Meiggs & Co., of Buenos Aires, have applied to the municipality for a concession for an underground electric railway from Plaza Mayo to Constitucion, Once, Retiro and back again to the Plaza Mayo.

Light Railways.—Buenos Aires.—It is reported that the London syndicate which held the option for the Lavalle concession for a system of light railways in the Province of Buenos Aires, have decided to take it up definitely. Surveys are now under way.

Railway.—Buenos Aires.—A bill has been presented to Congress authorizing the government to spend $200,000 gold in the surveys and construction of a line commencing near kil. 279 on the Great Western Argentine and terminating at the coal mines of Salagasta in the Province of Mendoza. This line only to be built in case the Cia. Hullera de Salagasta guarantees a net profit of 5% on the capital invested.

Railroad.—Buenos Aires.—The Public Works Committee of the Deputies has approved a petition of Urdaniz & Co. for railway concession, for a network between the following cities: Buenos Aires, La Plata, Samborombon, Bahia, Blanca and Necochea. The committee also approved a line from Mendoza to Sanagasta, to be built by the government.

CONTRACT PRICES.

[Where (*) precedes items under Contract Prices the work was advertised in Engineering News.]

*ROCK EXCAVATION.—Newport, R. I.—Following bids per cu. yd. were received Sept. 20 by Lt. Col. J. H. Willard, U. S. Engrs., for rock excavation, Pawtucket River, R. I.: John J. Fitzpatrick, Plattsburgh, N. Y., $7.19; P. Sanford Ross, Inc., Jersey City, N. J., $10; Charles W. Johnston, Lewes, Del., $11.50; J. K. Sullivan, Newport, R. I., $9.75; R. G. Packard Co., New York, $6.70.

*CONCRETE STEEL BRIDGE.—Washington, D. C.—Following bids were received Sept. 25 by Lt. Col. R. L. Hoxie, U. S. Engrs., for the construction of a concrete steel bridge in the approach to the highway bridge across the Potomac River at Washington, D. C.: (1) Cranford Paving Co., New York; (2) Monolith Reinforced Concrete Co., New York; (3) Abbott-Gamble Co., New York; (4) McMullen & McDermott, Washington; (5) Penn Bridge Co., Beaver Falls, Pa.; (6) Ambrose B. Stannard, New York; (7) James A. Hart Co., New York; (8) Miller Collins, New York; (9) Crouse Construction Co., Perth Amboy, N. J.; (10) Bell Engineering & Construction Co., New York. The prices for the items commencing with dredging and ending with steel reinforcement are only for the purpose of determining the value of possible additions to or deductions from the original quantities in the structure and will not be considered in convassing the bids:

BIDS RECEIVED AT WASHINGTON, D. C., SEPTEMBER 25, 1905, BY LT. COL. R. L. HOXIE, U. S. ENGINEERS, FOR THE CONSTRUCTION OF A CONCRETE STEEL BRIDGE IN THE APPROACH TO THE HIGHWAY BRIDGE ACROSS THE POTOMAC RIVER.

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10
Bridge complete with all concrete facing	$126,700.00	$185,000.00	$141,000.00	$128,055.00	$97 367.00	$204,000.00	$130,600.00	$100,000.00	$146,975.60	$154,891.50
Bridge complete with stone facing	....	198,000.00	150,000.00	134,555.00	109,000.00	226,000.00	152,000.00	....	....	....
Removal 550 cu. yds. concrete, stone and timber	7.00	4.50	5.00	6.00	1.50	2.00	5.00	1.50	2.00	2.40
Excavation, 550 cu. yds	.90	1.00	2.50	2.00	2.50	2.00	1.00	.70	1.05	.95
Dredging	.90	.90	5.00	2.00	.40	2.00	2.00	.70	.90	.75
Land excavation	2.00	.80	2.50	2.00	1.20	11.00	3.00	1.00	.70	1.00
Concrete, Class I	6.75	6.50	7.00	10.00	.35	6.50	9.00	5.75	7.95	9.02
Class II	6.50	6.25	7.00	10.00	6.00	6.30	9.00	5.50	7.95	8.40
Class III	10.00	15.00	17.00	10.00	5.50	14.00	12.00	11.00	9.50	10.75
Class IV	29.00	30.00	27.00	10.00	18.50	20.00	80.00	25.00	14.00	12.00
Class V	4.90	4.50	4.50	10.00	4.00	4.00	5.00	3.50	8.00	7.15
Sand-filling about heads of piles, per cu. yd	2.00	.75	....	2.00	1.00	8.00	1.50	1.00	1.60	1.50
Foundation piles, per lin. ft	.50	.50	.60	.28	.35	.42	.50	.25	.35	.40
Steel-reinforcement, per lb	.05½	.04	.04	.02½	.04	.04	.06	.05	.04	.06

*WASH BORINGS.—New York, N. Y.—Following bids per lin. ft. were received Sept. 20 by Rapid Transit R. R. Comrs., Alfred Craven, Deputy Ch. Engr., for making wash borings on lines of proposed rapid transit routes in New York City: (1) Section No. 1, 14,500 lin. ft.; (2) Section No. 2, 11,000 lin. ft.; (3) Section No. 3, 5,400 lin. ft.; (4) Section No. 4, 16,000 lin. ft.; (5) Section No. 5, 11,500 lin. ft.; (6) totals: Healey Sewer Machine & Construction Co., 15 Beacon St., Boston, Mass., (1) 50 cts., (2) 50 cts., (3) 45 cts., (4) 45 cts., (5) $1.15, (6) $35,605; F. W. Miller, 104 Centre St., New York, (1) 40 cts., (2) 45 cts., (3) 50 cts., (4) 55 cts., (5) $1.50, (6) $39,500; Bernard Rolf, 39 Cortland St., New York, (1) 99 cts., (2) 99 cts., (3) $1.50, (4) $1.25, (5) $3.25, (6) $90,720.

*RETAINING WALLS.—Hartford, Conn.—Following bids were received Sept. 19 by Bridge Commission, Connecticut River Bridge and Highway District, Edwin D. Graves, Ch. Engr., for constructing retaining walls: (1) M. J. Leahy, 1446 Broadway, New York; (2) G. H. Eldridge, Ossining, N. Y.; (3) G. M. Alkins, Palmer, Mass.; (4) A. L. Hills, Hartford, Conn.:

Bids received at Hartford, Conn., Sept. 19, 1905, by Bridge Commission, Connecticut River Bridge and Highway District, Edwin D. Graves, Chief Engr., for Constructing Retaining Walls.

Items.	Quantities.	(1)	(2)	(3)	(4)
Foundation concrete including excavation	2,672 cu. yds.	$12.00	$7.00	$7.50	$7.50
Granite rubble masonry	2,688 "	12.00	9.75	9.00	4.75
Dressed Coping	1,296 lin. ft.	9.00	4.50	4.00	4.50
Total		$75,948	$50,715	$50,389	$38,626

*STEEL TRESTLES.—Wheeling, W. Va.—Following bids per lb. were opened Sept. 22 by Major Geo. A. Zinn, U. S. Engrs., for furnishing and delivering 49 steel trestles for dams on Kanawha River: Frank Woodman, Charleston, W. Va., $.0566; J. & J. B. Mulholland Co., Pittsburg, Pa., $.063; Griffiths Iron Works Co., St. Louis, Mo., $.057; Lawrence D. Weaning, Cleveland, O., $.065; The Interstate Engineering Co., Bedford, O., $.0649; The Wm. Bayley Co., Springfield, O., $.069; Geo. C. Thomas, New York, N. Y., $.068; The North Penn Iron Co., North Penn Junction, Phila., $.0625; New Jersey Foundry & Machine Co., New York, N. Y., $.0697; Chas. Hegewald Co., New Albany, Ind., $.0525; Penn Bridge Co., Beaver Falls, Pa., $.064; The Champion Iron Co., Kenton, O., $.0367.

BRICK PAVING.—Sterling, Ill.—Bids were received Sept. 19 by Board Local Improvements, Jno. D. Arey, Cy. Engr., for paving West Fourth St. with brick, the contract being awarded to CHAS. L. BESSLER, Cedar Rapids, Ia. The foundation is to consist of 6-in. of macadam, and the curb is to be of cement concrete, 6-in. × 24-in. The bids received were as follows, (1) being 17,627 sq. yds. paving and (2) 5,882 lin. ft. curb: Chas. L. Bessler, Cedar Rapids, Ia., (1) $1,24, (2) $0.23; Smith & Brown, (1) $1.42, (2) $0.30; A. D. Thompson, (1) $1.31, (2) $0.27; Rourke & Ridge, Sterling, Ill., (1) $1.38, (2) $0.38; M. Ford, (1) $1.35, (2) $0.26.

*BRICK PAVING.—Champaign, Ill.—Bids were received Sept. 22 by the Board Local Improvements, G. C. Fairclo, Cy. Engr., for paving Randolph St. with brick for a length of 7,650 ft. and a width of 30 ft. and 33 ft., the contract being awarded to J. W. STIPES, Champaign, at a total of $47,405. The paving is guaranteed for ten years; thickness of wearing coat 4-in.; thickness of foundation 6-in., composed of concrete made up of one part Portland cement, four parts gravel and eight parts broken stone; concrete curb and gutter, 5-in. × 7-in., is to be laid. Itemized bid of successful contractor was as follows: Earth excavation, 11,000 cu. yds., $0.23; paving, 22,600 sq. yds., Western paver, $1.49, Clinton, $1.54, Culver, $1.54; stone retaining curb, 1,188 lin. ft., $0.40; curb reset, 335 lin. ft., $0.40; concrete curb and gutter, 15,295 lin. ft., $0.46.

GRADING, CONCRETE SIDEWALKS.—Seattle, Wash.—Bids were received Sept. 16 by Board Public Works for grading and concrete sidewalking on East 5th St. and other streets, the contract being awarded to D. DOW & CO., Seattle, at the following bid: Fixed estimate, $900; clearing and grubbing, 7.9 acres, $100; earth work, $0.23½; solid rock, 20 cu. yds., $0.01; cross walks, 21 m ft. B. M., $14; curbs, gutters, etc., 81 m ft. B. M., $14; concrete walks, 7,145 sq. yds., $1; two inlet catch basins, 3, $75; 1 inlet catch basins, 13, $60; three inlet catch basins, 1, $87; catch basins to be removed, 3, $60; single inlets, 4, $1.35; 3-in. sewer pipe, 2,430 lin. ft., $0.10; 8-in. pipe sewer, 108 lin. ft., $1.20; total, $19,098.

◆

CIVIL SERVICE EXAMINATIONS

ENGINEER, RODMAN, ETC.—Municipal Civil Service Commission, Henry Berlinger, Secy., 61 Elm St., New York, has announced the following examinations for positions on the Board of Water Supply: Assistant engineers at $1,350, $1,650 and $2,000 per annum, respectively, Oct. 12 and Oct. 17, applications to be received until 4 p. m., Oct. 5. Chainman and rodman at $900 to $1,000 per annum, Oct. 19, applications to be received until 4 p. m., Oct. 10. Axman at about $800 per annum, Oct. 24, applications to be received until 4 p. m., Oct. 12. It is probable that about 100 assistant engineers will be appointed within the next six months, about 20 to the highest grade, 30 to the next and 50 to the lowest. About 50 chainmen and rodmen, and about 75 axmen, will be appointed. Official advertisements are given in our Proposal Columns.

LABORATORY ASSISTANT.—U. S. Civil Service Commission, Washington, D. C., from which further information can be obtained, will hold an examination on Oct. 25, 1905, at various places throughout the country, to secure eligibles from which to make certification to fill a vacancy in the position of laboratory assistant, qualified in electrical measurements, $900 per annum; another in the position of laboratory assistant, qualified in weights and measures, $900 per annum, both in the Bureau of Standards, and vacancies as they may occur in any branch of the service requiring similar qualifications.

◆

INDUSTRIAL NOTES.

THE A. S. ALOE CO., St. Louis, Mo., announces that for a postal card request it will send a sample sheet of its Engineering Record Book.

LOUIS LORENZ, machinist, 129 E. 18th St., N. Y., announces that he has removed from 1247 De Kalb Ave., Brooklyn, to 129 E. 18th St., N. Y. His specialty is removing, erecting and repairing printers and bookbinders' machinery.

THE STANDARD RAILWAY TRACK APPLIANCE CO., Kalamazoo, Mich., is the Merrill-Stevens Mfg. Co. under a new name, but without any change in the management. The company will continue the manufacture of cattle-guards and track tools.

M. BEATTY & SONS, Ltd., Welland, Ont., Can., have purchased the plant, business and good will of M. Beatty & Sons. The company will continue the manufacture of dredges, ditchers, derricks, centrifugal pumps and other contractors' supplies.

THE HERRON & BURY MANUFACTURING CO., Erie, Pa., announces under date of Sept. 14, 1905, that the name of the company has been changed to the Bury Compressor Company, with enlarged shops, increased facilities, and the addition of new types and sizes of air and gas compressors and vacuum pumps.

PUTNAM A. BATES, Consult. Elec. Engr., 42 Broadway, New York, announces that the co-partnership of Bates & Neilson, E. E., has been dissolved by limitation. Mr. Bates will continue the business, giving special attention to the preparation of plans, specifications and supervision of electrical installations, investigation and reports.

THE ROBINS CONVEYING BELT CO., N. Y., has on hand at present among their various contracts an order for a one-ton mast and gaff rig for the 44th St. Station of the Consolidated Gas Co. of N. Y. It is also about to complete an order for separator parts for the Elizabeth Copper Co., of Stafford, Vt., and is preparing plans for new improvements at the Newark Works of the National Metallurgical Co.

THE MARINE MANUFACTURING & SUPPLY CO., 158 South Street, New York City, are moving their manufacturing department to New Brunswick, New Jersey. The new plant occupies the larger part of a city block and includes iron and brass foundry, machine shop, blacksmith and pattern shops, etc. They make steering wheels, windlasses, hoisting winches, crabs, derrick fittings and a complete line of ship builders' and contractors' supplies. They are in the market for new machinery and will be glad to receive manufacturers' catalogues.

THE MICHIGAN PIPE CO., Bay City, Mich., has closed a contract with the township of Republic, Mich., for about 8,200 ft. of 8-in. wood pipe, 4,666 ft. of 6-in. wood pipe, 5,396 ft. of 4-in. wood pipe with special castings, 34 double discharge hydrants, about 32 valves and boxes for 360 ft. of 10-in. galvanized iron intake pipe with galvanized elbows and nipples, so as to make flexible joints; brick building, pumps, machinery, boilers, and everything complete so that the water-works will be ready to operate. Cost of the works is to be about $25,000. Contract was signed Aug. 18 with D. T. Morgan, Supervisor, acting under instructions of the township board.

THE FEATHERSTONE FOUNDRY & MACHINE CO., of Chicago, inform us that the fire which took place [illegible] plant Sept. 14, 1905, broke out in the pattern loft and destroyed the upper portion of the building with the contents. The damage, however, was quickly repaired, and business is going on as before. The ammonia fitting business was recently transferred to the Maywood plant, the capacity of which has been increased about 300 per cent. There is on hand at the Maywood plant a large stock of ammonia valves and fittings, and the company is prepared to fill orders for the same on receipt. The officers of the company are as follows: C. M. Hewitt, Pres.; E. C. Tourtelot, Secy.; F. D. Frazier, Treas.; A. E. Croft, Gen. Mgr.

EXHIBITS AT CENTRAL STATES WATER-WORKS MEETING.—Exhibits at the Central States Water-Works Meeting, Sept. 12-14, 1905, were made by the following: Pittsburg Meter Co., Keystone Water Meter, East Pittsburg, Pa.; Safety Meter Lock Co., Columbus, O.; A. P. Smith Mfg. Co., Newark, N. J.; Harris Air Pump Co., Indianapolis, Ind.; Thomson Meter Co., Lambert Meter, Brooklyn, N. Y.; Columbus Meter Seal Mfg. Co., Columbus, O.; Hersey Mfg. Co., Boston, Mass.; H. Mueller Mfg. Co., Decatur, Ill.; Neptune Meter Co., Western Department, Chicago, Ill.; Union Water Meter Co., Worcester, Mass.; The Victor Supply Co., Springfield, O., fireproof coupling; Barton Mfg. Co., Racine Wis., fire department snaps; Anderson Coupling Co., Portland, Conn.

EXHIBITORS AT NEW ENGLAND WATER-WORKS ASSOCIATION CONVENTION.—The list of exhibitors at the 24th annual convention of the New England Water-Works Association, held in New York City Sept. 13, 14, 15 and 16, were as follows: Allis-Chalmers Co., pumps; Barker, Well Co., well-drilling apparatus; Coffin Valve Co., valves and hydrants; Fairbanks Co., valves and hydrants; Garlock Packing Co., packings; Hayes Mfg. Co., brass goods; Hersey Mfg. Co., meters; Mueller Mfg. Co., brass goods; National Meter Co., meters; Pittsburg Meter Co., meters; Rensselaer Mfg. Co., valves and hydrants; Ross Valve Co., valves; Smith Mfg. Co., tapping machines and brass goods specialties; Thomson Meter Co., meters; Union Meter Co., meters; Water-Works Equipment Co., supplies; R. D. Wood & Co., pipe, hydrants and valves; H. R. Worthington, meters; Walter Macleod & Co., lights, lead furnaces and heaters; Kennedy Valve Co.; Eddy Valve Co.; Neptune Meter Co.; "Fire and Water Engineering;" "Municipal News."

THE GREEN FUEL ECONOMIZER CO., of Matteawan, N. Y., has just completed the erection of a large shop designed to provide for its rapidly increasing business. This company not only supplies special exhausters with bearings removed for the action of the flue gases for mechanical draft in connection with the widely used Green Fuel Economizer, but also builds fans, blowers and exhausters for every purpose, having, for instance, recently sold fans for heating, ventilating and humidifying in textile mills, ventilating and drying in paper mills, heating and ventilating in large buildings, etc. It is just now installing the largest mechanical draft exhauster ever built for a factory in Massachusetts.

New designs have been worked out for all types of "Green-Matteawan" fans with the special object of reducing the power required for driving. Fans are often driven by small non-condensing engines or by electric motors using purchased electric power, so this is quite an important matter. The Green Fuel Economizer Co. does not contract for the engineering of plants, or for the installation of heating and ventilating plants in competition with the heating and ventilating contractors, but freely offers the advantages of its engineering skill and experience in the construction and operation of air-moving plants.

THE B. F. STURTEVANT CO., of Boston, has secured the contract for the forge shop equipment of the Springfield Technical High School, Springfield, Mass., which will consist of over 20 forges, with blower for furnishing blast and exhauster for removing the smoke. The new lathe shop of the Latrobe Steel Co., Latrobe, Pa., containing nearly three-quarters of a million cubic feet of space, is to be heated by Sturtevant hot blast system. The Sturtevant Co. has just sold a set of large electric propeller fans for kitchen ventilation in the Government Hospital for Insane at Uniontown, D. C. The Imperial Cement Co., Montreal, is equipping itself with a Sturtevant pulverized coal burning apparatus, supplied by the Sturtevant Co. Among recent sales of economizers made by the Sturtevant Co. are the following: Sixteen to the Champion Coated Paper Co., Hamilton, O.; two each to The Am. Steel & Wire Co., Cleveland; Bourne Mills, Fall River, Mass., Hampton Co., Easthampton, Mass; one each to S. D. Warren & Co., Cumberland Mills, Me.; The Solvay Process Co., Syracuse; Mount Hope Finishing Co., North Dighton, Mass., and the New England Co., Rockville, Conn. The Publishers Paper Co., Portsmouth, N. H., is to install a Sturtevant standard fuel economizer for 2,000 boiler HP. The Solvay Process Co., Syracuse, is to install a unique air heater in the form of a special economizer built by the Sturtevant Co. This is designed to heat nearly a million cubic feet of air per hour from about 70° to 600° Fahr.

AN EXPOSITION OF MUNICIPAL SUPPLIES.—The first annual exposition of Municipal Supplies was held in Montreal, Canada, Sept. 5-9, in connection with the twelfth annual convention of the American Society of Municipal Improvements. The exposition was held in Crystal Rink, the main part of the building being devoted entirely to the use of exhibitors. Firms from both Canada and the United States made a creditable showing. The exhibits were as follows:

American Asphaltum & Rubber Co., Woman's Temple, Chicago, Pipe Coating, Waterproofing, Paving, Mastic, etc.; Wm. H. Arthur, Stamford, Conn., Vitrified Paving Block for Street Rails; C. L. Berger & Sons, 37 William St., Boston, Mass., Surveying Instruments; The Blair Light Co., Northboro, Mass., Automatic Gasolene Street Lamp; Canadian Fire Hose Co., Montreal, Extinguishers, Nozzles, Hose, etc.; Canadian Fairbanks Co., Montreal, Pumps, Engines, etc.; Construction & Paving Co., Ltd., Montreal, Toronto and Ottawa, Paving Materials; F. Hyde & Co., Montreal, Municipal Builders' and Contractors' Supplies; Kolisch & Co., 138 Fulton St., New York, Surveying Instruments; The John McDougall Caledonian Iron Works Co., Ltd., Pumps, Water Wheels, Boilers, etc.; Metropolitan Brick Co., Canton, O., Paving Block; Montreal Pipe & Foundry Co., Ltd., Cast-Iron Pipe; Jas. Morrison Brass Mfg. Co., Ltd., Toronto; Neptune Meter Co., 120 Liberty St., New York, Water Meters; Northern Electric & Mfg. Co., Ltd., Montreal, Fire Alarm Apparatus; The Ontario Asphalt Block Co., Ltd., Windsor, Paving Material; F. H. Pough, 28 Burling Slip, New York, "Pozite" Pipe Joint Cement; Sayer Elec. Co., Montreal, Electrical Supplies of all kinds; The Sessions Foundry Co., Bristol, Conn., Special Castings; Sicily Asphaltum Co., Montreal, Paving Material; The Thomson Meter Co., Brooklyn, N. Y., Water Meters; United States Wood Preserving Co., 29 Broadway, New York, Paving Block; Toronto Pressed Steel Co., Toronto, Scrapers; Pacific Coast Pipe Co., Ltd., Vancouver, B. C., Wooden Pipe; Sanitary Street Cleaning & Sprinkling Machine Co., St. Louis, Mo.; Warren Bros. Co., Boston, Bitulithic Paving; The Waterous Engine Works Co., Ltd., Brantford, Ont., Fire Engines, Road Rollers, Stone Crushers, etc.; The Wilkinson Plough Co., Ltd., Toronto, Dump Wagons, Scrapers, Snow Plows, etc.; R. D. Wood & Co., Philadelphia, Pa., Hydrants, Valves, Castings, etc.

EXHIBITS AT THE ANNUAL CONVENTION OF THE ROADMASTERS AND MAINTENANCE OF WAY ASSOCIATION.

RAILWAY EXHIBITS.—The following is a list of the exhibits at the annual meeting of the Roadmasters and Maintenance of Way Association, held at Niagara Falls, N. Y., Sept., 12, 13, and 14:

American Steel & Wire Co., Chicago.—Wire fencing.

American Valve & Meter Co., Cincinnati, O.—Switchstands, and a switch-point protector.

Andreon & Co., Security Building, St. Louis, Mo.—Track supplies and tools.

Atlas Railway Supply Co., Manhattan Building, Chicago.—Switchstands, rail braces and the Atlas rail joint with malleable iron splices.

Avery Stamping Co., Cleveland, O.—Steel ties, fence posts and shovels.

Brown Sphinx Co., Fisher Building, Chicago.—The Brown switchstand.

Buda Foundry & Mfg. Co., Railway Exchange, Chicago.—Track tools, tie-plate gage, hand cars, iron track signs, high speed steel for rail drills.

Cambria Steel Co., Arcade Building, Philadelphia, Pa.—The "100%" rail joint.

Chicago Wire Fence & Tool Co., 146 E. Division St., Chicago.—Wire fencing, stays for old fences, and fence tools.

Climax Stock Guard Co., Chicago.—Cattleguard made of ribbed clay blocks.

Continuous Rail Joint Co., Newark, N. J.—Samples of rail joints for various sections of rails; also insulated joints.

Deadman & Holden, Sault Ste. Marie, Mich.—Model of rail joint.

Dilworth & Porter Co., Pittsburg, Pa.—The Gildie claw tie-plate and sharpened spike.

Dressel Railway Lamp Works, 3866 Park Ave., New York, N. Y.—Switch and signal lamps.

Elliot Frog & Switch Co., East St. Louis, Ill.—The Eureka spring rail frog.

Fairbanks, Morse & Co., Chicago.—Hand and inspection cars, jacks and track tools.

Wm. Goldie, Pittsburg, Pa.—Model of new rail resembling English bull-head rail set in a channeled continuous base-plate and held by bolted clips.

Wm. Goldie, Jr., & Co., West Bay City, Mich.—Machine-cut plugs for filling old spike holes in ties.

Grip Nut Co., Railway Exchange, Chicago.—Nut lock.

Handlan-Buck Mfg. Co., 210 N. Trid St., St. Louis, Mo.—Track drills, gages and other tools.

Hart Steel Co., 26 Cortlandt St., New York.—The Hart flanged tie-plate with flat and ribbed surface, with and without shoulder.

Hayes Track Appliance Co., Geneva, N. Y.—Derailing devices for side tracks.

Hussey-Binns Shovel Co., 541 Wood St., Pittsburg, Pa.—Tamping shovels, spades and scoops.

Independent Railroad Supply Co., Rookery Building, Chicago.—The Wolhaupter rail joint, with base support.

Indianapolis Frog & Switch Co., Indianapolis, Ind.—Frog switches and switchstand.

International Acheson Graphite Co., Niagara Falls, N. Y.—Graphite and graphite paint, carborundum and grinding devices.

Philip S. Justice & Co., 421 Chestnut St., Philadelphia, Pa.—The Justice spike-pulling clawbar.

Light Inspection Car Co., Hagerstown, Ind.—Hand and motor cars for track inspection.

Locomotive Appliance Co., Old Colony Building, Chicago.—The Smyth derailing switch, Newton wrecking frog, and Allfree-Hubbell valve gear for locomotives.

Luther Bros. Co., North Milwaukee, Wis.—Carborundum grinders for sharpening tools, saws, etc.

McCord & Co., Chicago.—The Gibraltar bumping post.

Louis Mueller, Owosso, Mich.—A truss support for rail joints.

National Lock Washer Co., 65 Johnson St., Newark, N. J.—Spring washers.

Pittsburg oTol & Drop Forge Co., Cheswick, Pa.—Sledges, picks, track gages and tools.

Railroad Supply Co., Bedford Building, Chicago.—The Wolhaupter, Q. & C., and C. A. C. steel tie-plates.

Ramapo Iron Works, Niagara Falls, N. Y.—Switches, frogs, switchstands and rail braces.

Scott Mfg. Co., Racine, Wis.—The Racine anti-creeping rail anchor and Hercules bumping post.

F. A. Smith, Railway Exchange, Chicago.—Special gage for lining track on curves and putting in transition curves.

D. P. Springer, Waverly, N. Y.—Model of rail joint.

Standard Railway Track Appliance Co., Kalamazoo, Mich.—Rail drill, jacks and cattleguards.

U. S. Metal & Mfg. Co., 25 Broad St., New York.—Pressed steel car replacers and Columbia lock nuts.

Walters & Okell, Fort Madison, Ia.—Device for tamping ties without disturbing the old ballast.

Weber Rail Joint Mfg. Co., New York.—Rail joints.

Wm. Wharton, Jr., & Co., Philadelphia, Pa.—Manganese steel frog, and switch with manganese steel points fitted to switch rails.

◆

TRADE PUBLICATIONS.

GARBAGE CREMATION.—Sanitary Engineering Co., 237 Broadway, New York City. Paper; 3 × 6 ins.; pp. 4.

We have here a short trade essay on "The Functions of a Garbage Crematory."

PUMPS.—The Goulds Mfg. Co., Seneca Falls, N. Y. Paper; 8 × 7 ins.; pp. 192; illustrated.

This is a general catalogue of the power pumps and pump supplies made by this company.

WOOD PIPE AND STEAM PIPE CASINGS.—The Michigan Pipe Co., Bay City, Mich. Paper; two small folders; illustrated.

One of these folders is devoted to improved Wyckoff wood pipe and the other to wood casings for steam pipe.

THE PITOMETER.—The Pitometer Co., 220 Broadway, New York; 310 Ashland Block, Chicago. Paper; 6 × 9 ins.; pp. 8; illustrated.

A general discussion of the uses of this water waste and fuel waste detector is here given.

WINDMILLS.—Flint & Walling Mfg. Co., Kendallville, Ind. Paper; 5 × 9 ins.; pp. 64; illustrated.

The windmill with the trade name "Star" is here described and illustrated. Windmill accessories, various small pumps, hydrants, etc., are also listed.

ELECTRIC MOTORS.—Emerson Electric Mfg. Co., St. Louis, Mo. Paper; 7 × 10 ins.; pp. 4; illustrated.

Small, single-phase induction motors are treated in this bulletin. The construction is described and illustrated, and prices are given. The sizes range from 1-10 to 1-6 HP.

BRICK MAKING MACHINERY.—Scott Mfg. Co., 609 Commonwealth Trust Building, St. Louis, Mo. Paper; 8 × 9½ ins.; pp. 8; illustrated.

The machinery described includes the Andrus four-mold brick press, and the Scott clay mixer, dry-pan and elevators and conveyors.

DROP FORGINGS.—Wyman & Gordon, Worcester, Mass., and Cleveland, O. Paper; 4¼ × 7 ins.; not paged; illustrated.

A short biographical sketch of Nathan Read, a Massachusetts man who took a hand in the early development of steam locomotion and navigation, is followed by a few words on and views of drop forgings.

DUMP CARS.—Kilgore-Peteler Co., Minneapolis, Minn. Paper; oblong; 9 × 6¼ ins.; pp. 31; illustrated.

A variety of small and large side-dump cars for contractors' purposes, etc., as well as gable-bottom cars with automatic trip, end-dump mine cars, lumber cars and flat cars. The Kilgore steam shovel is also illustrated.

DISTRICT STEAM HEATING.—The American District Steam Co., Lockport, N. Y. Paper; 6 × 9 ins.; pp. 35; illustrated.

The Holly system of direct and exhaust steam heating described at length. The company has 250 plants in operation. The catalogue is well worth a place in the library of any one interested in the subject matter.

CONCRETE PILES.—Corrugated Concrete Pile Co., 34 W. 26th St., New York, N. Y. Paper; 2¾ × 10¼ ins.; pp. 12; illustrated.

These piles are of concrete reinforced by longitudinal rods and horizontal circular hoops; the sides have vertical corrugations, and a central hollow allows for the use of a water jet in sinking. The illustrations show the manufacture and use of the piles.

PULLEYS.—The Emerson Electric Mfg. Co., St. Louis, Mo. Paper; 7 × 10 ins.; pp. 4; illustrated.

This is a price-list of small plain and cone pulleys for round and flat belts, as used in electric motor work. The sizes range from 1⅛ to 10 ins. diameter for the flat cone pulleys and 1⅛ to 8 ins. for the grooved cone pulleys, and up to 36 ins. for ordinary flat-belt pulleys.

SEPARATORS.—Warren Webster & Co., Camden, N. J. 3¼ × 6-in. folder.

The need for steam and oil separators in power plant piping, and the special need of Webster separators, is emphasized in this pamphlet.

LINED IRON PIPE.—Lead Lined Iron Pipe Co., Wakefield, Mass. 4-page circular, 8½ × 11 ins.

This company, making tin and lead lined pipe and fittings of both iron and brass, announces having received a gold medal at St. Louis last year, and incidentally advocates the use of its lined pipe for quite a number of special uses.

EXHAUST HEADS AND RIVETED PIPE.—American Spiral Pipe Works, 1173 South Paulina St., Chicago, Ill. Three pamphlets. Paper; 8½ × 11 ins.; pp. 4; and 3½ × 6 ins., pp. 4.

The larger pamphlet consists mainly of views illustrating the uses of the Taylor spiral riveted pipe. The two smaller ones show the Swartwout cast-iron and galvanized iron exhaust pipe heads.

STEAM AND AMMONIA CONDENSERS.—Atmospheric Condensation Co., Kansas City, Mo. Paper; 6 × 7 ins.; two pamphlets; pp. 8 and 8; illustrated.

The first pamphlet describes the Pennell flask system for the condensation of exhaust steam by the use of saturating air as the cooling agent. The second pamphlet refers to the use of the same process for the condensation of ammonia.

ROAD LOCOMOTIVES.—The Russell & Co., Massillon, O. Paper; 10 × 7½ ins.; pp. 32.

The Russell road locomotive is a heavy traction engine, with tandem compound cylinders mounted at the smoke-box end of the boiler, the steam being controlled by a single valve operated from a single sliding eccentric. It is built in two sizes, of 25 and 50 HP. The illustrations include line drawings and half-tone reproductions from photographs.

For other Proposal Advertisements see pages 43, 44, 45, 46, 47, 48, of Advertisements and Construction News page 110.

ELECTRIC LIGHT PLANT FOR SALE.

The Board of Cook County Commissioners, Chicago, Illinois, will sell to the highest bidder the electric light plant at the County Hospital, consisting of the following:

2 Ideal Engines, 125 HP. each.

4 National Electric Direct Current Dynamos, 35 Kilowatts each.

These machines are all in first-class working condition.

They will be detached and ready for removal.

The successful bidder will be required to remove machines within ten days after notification that his bid has been accepted.

Bids will be received at my office, Room 319, No. 218 La Salle Street, Chicago, Illinois, up to 1.30 P. M., Monday, October 23, 1905, at which time they will be transmitted to the Board of Commissioners of Cook County, by whom they will be publicly opened.

Parties bidding will endorse on face of envelope "Proposal for Electric Light Plant," which shall be properly sealed and addressed to the Board of Commissioners of Cook County, Chicago, Illinois.

Parties bidding are required to submit with bid a deposit of $200.00 currency or certified check, which deposit will be returned to bidder if bid is rejected, and if bid is accepted, at expiration of removal of machinery. Terms of sale to be cash, upon notification that bid is accepted.

The right is reserved to reject any or all bids or any part of any bid.

By order of the Board of Commissioners of Cook County.

WILLIAM McLAREN,
Superintendent Public Service.
Dated Chicago, Ill., September 26, 1905.
13-4t

U. S. ENGINEER OFFICE, 1000 22d St., N. W., Washington, D. C., Sept. 21, 1905.—Sealed proposals for dredging in Breton Bay, Md., Occoquan and Carters Creeks, and Mattaponi and Pamunkey Rivers, Va., will be received here until 12 m., Oct. 21, 1905, and then publicly opened. Information on application. R. L. HOXIE, Lt. Col., Engrs.
13-4t

PROPOSALS FOR GUARD HOUSE AND ADMINISTRATION BUILDING.—Fort Brady, Mich., Sept. 25, 1905.—Sealed proposals, in triplicate, will be received until 11 a. m., Oct. 14, 1905, for furnishing labor and material for repairing Guard House and constructing Administration Building. Information furnished on application. U. S. reserves right to accept or reject any or all proposals, or any part thereof. Envelopes containing proposals should be indorsed "Proposals for Guard House and Administration Building," addressed C. S. HOFFMAN, 2d Lieut., Q. M.
13-3t

LAYING WATER MAINS.

Libertyville, Lake County, Illinois.

Sealed proposals will be received by the Board of Local Improvements of the Village of Libertyville, Lake County, Illinois, until 7.30 o'clock P. M., on Thursday, Oct. 5th, 1905, at the room usually occupied by the Village Council, in the Heath Building, in the said Village of Libertyville, for the laying of 3,050 feet of 8" cast-iron water pipe, 28,650 feet of 6" cast-iron water pipe and 612 lineal feet of 4" cast-iron water pipe, together with fire hydrants, shut-off valves and all other necessary adjuncts and special castings.

Proposals must be made out on blanks furnished at the office of the President of the Board of Local Improvements, over the Lake County National Bank, in said Village of Libertyville, and be addressed to the President of the Board of Local Improvements of said Village, endorsed "Proposals for water supply pipe," and be accompanied by cash or by a certified check, payable to the President of the Board of Local Improvements, on some responsible bank, for an amount equal to ten per cent. of the aggregate proposal.

Bids will be opened by the Board of Local Improvements in open session at 8 o'clock P. M., Oct. 5th, 1905, in said room in said Heath Building, in the Village of Libertyville, Lake County, Illinois.

Contractors will be paid in bonds drawing interest at the rate of five per cent. per annum.

The Board of Local Improvements reserves the right to reject any and all bids as the Board may elect.

Plans and specifications are also on file at the office of C. N. Durand, Village Attorney, 312-85 Dearborn St., Chicago.

PAUL McGUFFIN,
President of Board of Local Improvements.
JAMES ANDERSON, JR.,
Engineer for Board of Local Improvements.
13-1t Lake Forest, Illinois.

SEWERAGE PURIFICATION PLANT.

Glencoe, Ill.

Sealed proposals for the construction and installation of a sewerage purification plant for the Village of Glencoe, Cook County, Illinois, will be received by the Village Council of said Village at or before 8 o'clock P. M., October 10, 1905, at the office of the Clerk of said Village.

Each bid to be accompanied by a certified check, payable to the President of said Village, or cash to the amount of 10% of bid.

The Village reserves the right to reject any or all bids, and a satisfactory bond will be required for the successful operation of said plant.

All outlets and connections with the present mains must be included in the proposal, plans and specifications of said outlets and connections being on file in the office of the Clerk of said Village.

Bidders are requested to visit the site of the proposed work, and to present satisfactory evidence that they are familiar with such work.

Said plant is to provide for a flow of (40,000) Forty Thousand gallons of sewerage per twenty-four (24) hours, and the effluent therefrom to be free from objectionable odors and organic matter, to be a gravity plant, constructed of substantial and durable materials and to be operated with a minimum amount of attention.

Bidder must present plans and specifications showing the nature and size of his plant.

FRANK A. WINDES,
Civil Engineer,
Winnetka, Ill.
G. D. HALL, Village Clerk,
13-1t Glencoe, Ill.

MUNICIPAL CIVIL SERVICE COMMISSION, 61 Elm St., New York, Sept. 20, 1905.—Public notice is hereby given that an open competitive examination will be held for the position of Axeman, Board of Water Supply, on Tuesday, October 24th, at 10 a. m. Receipt of applications will close on October 12th at 4 p. m. For scope of examination and further information, apply to the Secretary of the Commission. WILLIAM F. BAKER, President, R. ROSS APPLETON, ALFRED J. TALLEY, Civil Service Commissioners. HENRY BERLINGER, Secretary.
13-1t

WANTED—SECOND-HAND

Steam Revolving Self Propelling

Locomotive Crane

with 50 ft. boom, equipped with or arranged to operate a clam-shell bucket. The

Grey & Bruce Portland Cement Co.

12-2t Owen Sound, Ont.

FRANCHISE FOR UTILIZATION OF WATER POWER.

Porto Rico.

Whereas, the Executive Council of the Island of Porto Rico is desirous of granting a franchise or concession for the development of a certain water power known as the "Comerio Falls," situated on the La Plata River, approximately 17 miles, in a direct line, from the City of San Juan, and at an elevation of about 85 meters above sea level, which falls are estimated to be able to develop about 1,000 horse-power as a minimum, and at times more, depending on local rains;

Therefore, the said Executive Council will receive bids or proposals from all persons desiring the above mentioned franchise, up to ten o'clock a. m., December 2d, 1905, at which time such bids or proposals will be opened and examined. All bids or proposals must state clearly the use for which the water power is sought, and must be accompanied by plans and specifications with details sufficient to show the general engineering features of the work. Each bid must be accompanied by a certified check for $2,500.00, payable to the order of the Treasurer of Porto Rico, as a guarantee that the franchise will be accepted if granted Said checks will be at once returned to the unsuccessful bidders, and the check of the successful bidder will be returned when the franchise is duly accepted.

Bids should be signed by the bidder with full name and address, and must be enclosed, with the plans and specifications, in a sealed package marked: "Bids, plans and specifications for the utilization of the Comerio Water Power," and be addressed to the "Chief Clerk of the Executive Council, San Juan, Porto Rico."

Each applicant is expected to specify in his bid the annual cash royalty he will pay to the Insular Government for the franchise

The work of installation must be started within sixty days after the signing of the franchise by the President of the United States, and at least one-third of the total installation completed by the end of the first year, and the remainder of the work be finished at the end of the second year.

A bond of not less than ten thousand dollars, in cash or approved evidences of credit, must be deposited by the successful bidder as a guarantee of the completion of the work, and this bond will be forfeited to the Insular Government if any of the required portions of the work are not completed within the period stipulated.

Bidders may obtain surface and underground rights-of-way for electric and water companies operating in San Juan by complying with the local laws.

The Executive Council reserves for the Insular Government the right to use 260 cubic feet of water per minute, to be taken from a point above the crest of the falls. It is roughly estimated that such an abstraction will diminish the power of the falls only about 1-15 when the water is at its lowest stage.

Applicants are further informed that the lands bordering on the stream at the falls are in the hands of private owners, and possession of such lands will have to be secured by private arrangement with the owners, or the same may be condemned under the law of eminent domain.

The Executive Council reserves the right to reject any and all bids, also, after opening the bids, to treat and bargain with any bidder so as to secure a more desirable arrangement.

Bidders are advised that they themselves must secure accurate information concerning the size of this water power, distances, and other factors bearing on its potentialities, and that the figures above given are but estimates.

For further information apply to the Clerk of the Executive Council, San Juan, Porto Rico.

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C. September 21, 1905.—Sealed proposals will be received at this office until 3 o'clock p. m on the 19th day of October, 1905, and then opened, for the installation of an electric passenger elevator and hydraulic lifts in the U. S. Court-House and Post-Office building at Lincoln, Nebraska, in accordance with the drawings and specifications, copies of which may be obtained at this office at the discretion of the Supervising Architect. JAMES KNOX TAYLOR, Supervising Architect. 13-2

U. S. ENGINEER OFFICE, Army Building, New York, September 25, 1905.—Sealed proposals for constructing and repairing dikes in Hudson River, N. Y., will be received here until 12 m., October 16, 1905, and then publicly opened. Information furnished on application. W. R. LIVERMORE, Col Engrs. 13-3t

---

CAST-IRON WATER PIPE AND SPECIAL CASTINGS.

Sealed proposals will be received by the Water Board of the City of Portland, Oregon, until 3 P. M., October 11, 1905, for furnishing and delivering at Portland, Oregon the following approximate quantities of cast iron water pipe and special castings, viz. 450 lengths 20-inch cast-iron pipe—weight per length, 1,920 lbs., 432 tons; 210 lengths 16-inch cast-iron pipe—weight per length 1,390 lbs., 146 tons; total weight of pipes 578 tons.

Special castings for cast-iron water pipe, 26,000 lbs.

Specifications and form of proposal can be obtained at the office of D. D. Clarke, Engineer of the Water Board, City Hall, Portland, Oregon.

Bidders must state the price of pipe per ton of 2,000 pounds and the price of special castings per pound, all delivered f. o. b cars Portland, Oregon, delivery of same to be completed on or before December 20 1905.

With each bid must be deposited a certified check for $1,000.00 payable to the order of the Auditor of the City of Portland Oregon, and bonds to be approved by the Mayor will be required of the successful bidder.

The right is reserved by the Water Board to reject any or all bids.

Proposals must be enclosed in an envelope endorsed on the outside: "Proposals for Water Pipe and Special Castings," and addressed to the undersigned.

As additional pipe materials may be required for use early in the season of 190 the Water Board wishes the option of ordering not later than November 8, 1905, all or part of the following pipes and specials.

Bidders are therefore requested to state whether they will give such option and, if so, quote prices for delivery f. o. b. cars Portland, Oregon; delivery of same to begin within sixty days of date of order and to continue at the rate of 700 tons per month until completion.

230 lengths 24-inch cast-iron pipe—weight 2,290 lbs. per length, 264 tons.

970 lengths 24-inch cast-iron pipe—weight 2,550 lbs. per length, 1,237 tons.

335 lengths 24-inch cast-iron pipe—weight 2,780 lbs. per length, 466 tons.

1,100 lengths 24-inch cast-iron pipe—weight 3,000 lbs. per length, 1,650 tons.

Total, 3,617 tons.

Special castings for 24-inch water mains 140,000 pounds.

By order of the Water Board,

FRANK T. DODGE,
11-1t 13-1t Superintendent.
Portland, Oregon, September 1, 1905.

TRACK AND ROADBED WORK.

Wabash, Indiana.

The Wabash and Rochester Traction Company are prepared to receive bids for the completion of the track work and roadbed of their line between Wabash and Rochester Indiana. The original route of the line has been materially shortened and straightened and new franchises have been granted from the municipalities. Particulars will be furnished by addressing R. S. VIVIAN, 10 Dearborn Street, Chicago, Ill. 13-1

MUNICIPAL CIVIL SERVICE COMMISSION, 61 Elm St., New York, Sept. 20, 1905—Public notice is hereby given that an open competitive examination will be held for the position of Assistant Engineer, Board of Water Supply, on October 12th and October 17th, at 10 a. m. Receipt of applications will close on Thursday, October 5th, at 4 p. m. The examination will be held to fill three grades at $1,350, $1,650 and $2,000. For scope of examination and further information, apply to the Secretary of the Commission. WILLIAM F. BAKER, President R. ROSS APPLETON, ALFRED J. TALLEY, Civil Service Commissioners. HENRY BERLINGER Secretary. 13-1

U S ENGINEER OFFICE, Washington Barracks, D. C., September 26, 1905.—Sealed proposals will be received at this office until noon, October 26, 1905, and then publicly opened for Roofwork and Skylights for Army War College building. Information on application. JOHN STEPHEN SEWELL, Capt., Engrs. 13-4t

---

RESERVOIR, ETC.

Orange, N. J.

Sealed proposals, endorsed "Proposals for Building a Distributing Reservoir and Cast Iron Mains," and addressed to the "Chairman of the Committee on Water," will be received by the City Clerk at the hour of eight o'clock in the evening on Monday, the ninth day of October, A. D. nineteen hundred and five, in the Common Council Chamber, Canfield Street Engine House, and opened publicly at a meeting of the Common Council to be held on the same evening, in the presence of the bidders who may choose to attend for the following stated purposes, to wit

For constructing a distributing reservoir, furnishing and laying about 8,000 feet of 20-inch cast-iron mains, and 19,000 feet of 24-inch cast-iron mains and appurtenances. Alternative bids will be received for 19,000 feet of 30-inch cast-iron mains, etc.

Proposals must be made on the blank forms to be obtained from the City Engineer, and will be considered as inoperative if not in all respects in conformity with this notice. Bidders must state their prices in writing in words at length, as well as in figures.

Each proposal must be accompanied by an undertaking of a Surety Co., authorized to do business in the State of New Jersey, to the amount of $75,000, that it will enter into indemnity bond to that amount upon the award of the contract to the successful bidder.

Plans and specifications may be seen at the office of the City Engineer, Orange National Bank Building.

No bid will be considered unless the party making it shall furnish evidence satisfactory to the Common Council of his experience and ability in this class of work, and his financial ability successfully to prosecute the said contract in case the same shall be awarded him.

Bidders are required to state in their bid their individual names and places of residence in full.

Bids may be presented for the whole or a portion of the work to be done, and the Common Council reserves the right to award the work as a whole or in sections, as may appear for the best interests of the city.

The right to accept or reject any or all proposals is reserved as may be deemed best for the interests of the city.

Dated Orange, N. J., September 15, 1905.

FRED T. CRANE,
3-1t City Engineer.

U. S. ENGINEER OFFICE, Fisherman's Point, Guantanamo Bay, Cuba, Sept. 6, 1905.—Sealed proposals for furnishing 6,500 barrels Portland Cement, on wharf at Cond Beach, Guantanamo Bay, Cuba (depth of water at low tide 18 feet), or f. o. b. Prentice Stores, Brooklyn, will be received at Room S-7, Army Building, New York, N. Y., until 12 noon, Oct. 10, 1905, and then publicly opened. Information may be had upon application at Room S-7, Army Building, New York, N. Y., or at Fisherman's Point, Cuba CAPT. E. H. SCHULZ, Engrs. 11-4

DEPARTMENT OF THE INTERIOR Office of the Superintendent, U. S. Capitol Building and Grounds, Washington, D. C. September 20, 1905.—Sealed proposals (in duplicate) will be received at the above office until 2 o'clock p. m., Wednesday, November 8, 1905, for electric lighting fixtures for the House and Senate Wings, United States Capitol Building. Specifications and general information will be furnished on application. The right is reserved to reject any or all bids, or to accept parts of any or all bids, and to waive technicalities. ELLIOTT WOODS, Superintendent U. S. Capitol Building and Grounds. Approved: THOS RYAN, Acting Secretary. 13-6

FORT MEADE, S. D., September 23, 1905—Sealed proposals, in triplicate, for window screens, storm sash and storm vestibules for six public buildings at Fort Meade, S. D. will be received here until 2 p. m., October 3, 1905. Information furnished upon application. U. S. reserves right to accept or reject any or all proposals or any part thereof. Specifications may be seen by application to the Quartermasters at Saint Paul, Omaha, Saint Louis, and by application to this office. Envelopes containing proposals should be marked "Proposals for screens and storm sash for public buildings, Fort Meade, S. D.," addressed Major GEO. K. HUNTER, Con-

Please mention ENGINEERING NEWS

WATER-WORKS.

Lyons Falls, N. Y.

Sealed proposals will be received by the Board of Trustees of the village of Lyons Falls, N. Y., until twelve o'clock noon, on October 12th, 1905, for the construction of a system of water-works, consisting of a reservoir and about four and three-quarters miles of cast iron mains with their hydrants and other appurtenances.

Plans can be seen at the office of the Board at Lyons Falls, and at the office of Knight & Hopkins, Engineers, [illegible] N. Y., and specifications can be obtained at the office of the Board after September 30th, 1905.

Bids will be received for the whole work only.

The Board of Trustees reserves and has the right to accept or reject any proposal, to contract with other than the lowest bidder, and to reject all proposals and advertise again.

A bond satisfactory to the Board of Trustees in amount and sureties and in a sum equal to 50 per cent. of the contract price will be required of the bidder to whom the contract may be awarded. The sureties shall be residents of the State of New York, or a surety company organized under the laws of and doing business in the State of New York, the latter preferred. Each bidder will be required to state in his proposal the names and addresses of his bondsmen.

A certified check upon a State or National Bank to the amount of $1,000, drawn to the order of the Treasurer of the village of Lyons Falls, N. Y., must be deposited by each bidder as a guarantee that in case any contract is awarded him, he will, within seven days after notification of award, execute said contract.

Proposals must be on forms submitted by the Board of Trustees and must be sealed and addressed to Harry W. Cox, Clerk of the Village of Lyons Falls, N. Y., and marked on the outside of the envelope enclosing them, "Proposal for Lyons Falls Water-Works."

By order of the Board of Trustees of the Village of Lyons Falls, N. Y.

Dated September 20th, 1905.

FRANK HOSKINS, President,
C. R. BARLETT,
WESCOTT PORTER,
Trustees of the Village of Lyons Falls, N. Y.
3-2t

PAVING.

Columbus, Ga., Sept. 10, 1905.

Bids will be received until 12:00 M., October 3d, 1905, at the office of Superintendent Public Works, for paving Broad Street, between 10th and 13th Streets. Bids wanted on Asphalt, Vitrified Brick and Bitulithic.

Total amount of paving about 15,000 sq. yds. Right is reserved to reject any or all bids. Plans, specifications and bidding sheet may be had by addressing,

W. C. CAMPBELL,
Acting Supt. Public Works.
L. A. COMP,
Chm. Com. Streets and Sewers. 13-1t

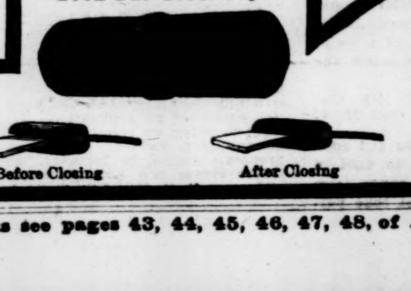
SITUATIONS OPEN

WANTED.—A first-class quarryman, or one capable of contracting to quarry and crush stone by the yard. Address "K. A. 13," Engineering News, New York. 13-2t

WANTED.—Superintendent of construction to superintend for contractor twenty-five to fifty miles of heavy railroad construction. Will pay salary or give interest in the work. State age, experience, terms wanted, and if applicant can furnish part of plant Address "L. A. 13," Engineering News, New York. 13-3t

WANTED.—Resident Engineers to take charge of about ten miles of heavy railroad construction, including tunnel work. Address, stating age, experience, and salary expected, "M. A. 13," Engineering News, New York. 13-3t

WANTED.—Experienced division engineer to take charge of fifty miles of heavy railroad construction work in North Carolina. Address, giving age, experience and salary expected, "O. A. 13," Engineering News, Nw York. 13-3t



Lock-Bar Pipe, Riveted Pipe, Boilers,
Tanks, Caissons, Air Locks,
Mud and Steam Drums, High Pressure Cylinders.
THE EAST JERSEY PIPE COMPANY,
OFFICES, 71 BROADWAY, NEW YORK. WORKS, PATERSON, N. J.

For other Proposal Advertisements see pages 43, 44, 45, 46, 47, 48, of Advertisements and Construction News page 110